

Panasonic

2008 | 2009

AUDIO VISUAL MAGAZINE



HIGH DEFINITION MATTERS EVERYTHING MATTERS



AUDIO VISUAL MAGAZINE

2008 | 2009



▶ PAGE 20-43

VIERA Series

Brilliant images with exquisite detail – that is what VIERA TV technology stands for in all of its available screen sizes.



▶ PAGE 68-81

LUMIX

High quality lenses and intelligent features make LUMIX cameras an excellent choice for beautiful images.

▶ PAGE 46-51

Blu-ray

The new Blu-ray disc players deliver stunning pictures and fantastic sound. Discover the Blu-ray difference!



▶ PAGE 84-95



Camcorder

High quality videos in the palm of your hand – the Panasonic Camcorder range offers high-end video technology for all occasions.



▶ PAGE 02-03

The Spirit of the Founder
90 Years of Design and Innovation



▶ PAGE 04-05

Environmental Responsibility
Panasonic Ideas for Ecology



▶ PAGE 06-07

Panasonic and Toyota in F1
A Formula for Success

Explore our products

▶ 01

EDITORIAL

- 02-03 ▶ 90 YEARS
- 04-05 ▶ ECO IDEAS
- 06-07 ▶ FORMULA 1
- 08-09 ▶ LIVING IN HD
- 10-11 ▶ VIERA DESIGN
- 12-13 ▶ VIERA LINK

▶ 02

DIGITAL HOME CINEMA

- 14-19 ▶ DIGITAL HOME CINEMA

▶ 03

VISUAL

- 20-21 ▶ VIERA CONCEPT
- 22-27 ▶ VIERA TECHNOLOGY
- 28-29 ▶ FREESAT
- 30-38 ▶ PLASMA TELEVISIONS
- 39-43 ▶ LCD TELEVISIONS
- 44-45 ▶ PROJECTORS

▶ 04

HOME AUDIO & VIDEO

- 46-51 ▶ BLU-RAY
- 52-57 ▶ DIGA DVD RECORDERS
- 58-59 ▶ DVD PLAYERS (inc Portables)
- 60-65 ▶ HOME CINEMA SYSTEMS
- 66-67 ▶ MICRO AND MINI HI-FI SYSTEMS

▶ 05

CAMERAS & CAMCORDERS

- 68-81 ▶ LUMIX DIGITAL STILL CAMERAS
- 82 ▶ PHOTO PRINTER
- 83 ▶ LUMIX ACCESSORIES
- 84-95 ▶ DIGITAL CAMCORDERS

▶ 06

ANCILLARIES

- 96-97 ▶ IC RECORDER
- 98 ▶ PORTABLE AUDIO
- 99 ▶ TECHNICS TURNTABLES
- 100 ▶ EARPHONES
- 101 ▶ HEADPHONES
- 102 ▶ HDMI CABLES
- 103 ▶ RECORDING MEDIA
- 104-105 ▶ DECT PHONES
- 106 ▶ HOME NETWORK
- 107 ▶ PLAIN PAPER FAX

90 Years of Design and Innovation

Key Products through the Decades



1918

Attachment Plug

In 1918, Konosuke Matsushita rented a two-story home, establishing Matsushita Electric Devices Manufacturing Works on the first floor. In his larger workshop, Konosuke was able to expand production to include the innovative attachment plug and a two-way socket – earning the company a reputation for high quality at low prices.



1931

3-Tube Radio

Radio broadcasting was rapidly catching on in Japanese households, but the radio sets the nation was tuning in on were prone to problems. Konosuke Matsushita himself was irritated to have a programme he was enjoying cut short, and so set out to design a radio that “wouldn’t break down”.



1952

Monochrome TV 17K-531

Gearing up for the open experiment held in Kyoto before the full-blown start of Japanese TV broadcasting in 1953, a group of engineers joined forces to complete the development of the first National TV set, the 17K-531, in only two months.

THE FOUNDER

A frail, sickly bicycle apprentice who survived unspeakable childhood tragedy, Konosuke Matsushita lacked formal education, wealth, charisma, connections and even a special talent.

Yet, early hardships produced hidden strengths which opened Konosuke Matsushita's mind to the collective wisdom of others. The author reveals how a lifelong thirst for learning fuelled the passion that led this humble, shy 5-foot-5-inch humanitarian idealist to pioneer management practices and advance his philosophy that the mission of a manufacturer is to relieve poverty and create wealth, not only for shareholders, but for society.



KONOSUKE MATSUSHITA



1972

Toot-a-Loop Radio R-72

In the early 1970s, the Apollo 11 had just landed on the moon, signalling the start of the new space age, Volkswagen Beetles ruled the roads and roller skates were a must-have. The Toot-a-Loop fashion radio, with its objet d'art theme, unusual design and fun colours, embodied the sense of fun and youthfulness of prevailing pop culture.



1980

Record Player SL-10

A hi-fi audio craze gripped Japan from the late 1960s through to the mid-1980s, as music lovers sought high-fidelity sound that was true to the recording studio. The remarkable SL-10 employed a linear tracking system, where the needle traces the grooves at the same angle as the blade that cut the record in the first place.



2006

Blu-ray Player DMP-BD10

The concept of a black box was of something that looks very simple from the outside, but which is extremely functional and intelligent on the inside. In order to realise this in a form that most people could easily recognise and understand, the design team agreed that the first step would be to develop a design that evoked "simplicity in both form and materials".

Eco Ideas

Creating a Balanced Co-Existence with the Environment on a Global Scale

learn more at www.panasonic.net/eco

Panasonic has more than 320,000 employees and boasts operations in almost every country on the planet. Taking this into account, Panasonic is a global company in every sense of the word and, as a major manufacturer, it takes its environmental and corporate citizenship responsibilities seriously. Recognising its obligation to nurture and protect the environment on a global scale, the Panasonic management have added stringent ecological goals to its GP3 three-year business plan. In parallel with steady growth and profitability, Panasonic businesses will also be measured on the extent to which they are able to reduce the impact on the environment due to operations and its products.



eco
ideas

PANASONIC ECO IDEAS DECLARATION

In addition to adding major environmental metrics to the GP3 business plan, Mr Fumio Ohtsubo, President of Matsushita Electric Industrial, recently announced the Panasonic Eco Ideas declaration comprising three pledges:

1. We will produce energy efficient products
2. We will reduce CO₂ emissions across all our manufacturing sites
3. We will encourage the rollout of environmental activities worldwide

So what do these pledges mean in practice?

ENERGY EFFICIENT PRODUCTS

Additionally, Panasonic aims to deliver greener products. This entails not only using sustainable materials or building recyclability into the product design – but also ensuring that the products efficiently conserve energy. Panasonic aims to increase the number of products with top-level, energy-efficient performance whilst phasing out products with low energy efficiency.





REDUCING CO₂ BY 300,000 TONNES BY 2010

By 2011, i.e. over the next three years, Panasonic aims to eliminate 300,000 tonnes of CO₂ emissions from its 294 manufacturing plants around the globe. In 2011, Panasonic plans to further reduce emissions to the level of that in 2001, effectively rolling back its CO₂ emission amount to that of ten years previously. To achieve this goal, Panasonic has established a system where 23 environmental key performance indicators (such as CO₂ emissions) are collected each month from all 294 manufacturing sites worldwide and are monitored. Additionally, and just as important, the reduction of CO₂ is not only limited to manufacturing activities, but also includes: product planning, procurement, sales, logistics and recycling.



CONTINUOUSLY SEEKING TO DEVELOP "GREEN PRODUCTS"

Our goal is to help build a sustainable society by accelerating the spread of products with higher environmental performance. Since starting the development of our Green Products Plan in 1997, we have worked hard to minimise the input of energy and resources, as well as the output of waste and emissions throughout the products' life cycles. We constantly increase the proportion of Green Products across our entire product range. Our product development is based on criteria such as universal design, which means easy-to-use design for everyone and the minimisation of environmental impact.



ECO IDEAS FOR EVERYBODY EVERYWHERE

Panasonic is encouraging the rollout of environmental activities worldwide by taking the initiative in promoting ecological movements on local and global levels, collecting the insight of not only of its employees, but also of people around the world.

A Formula For Success

Panasonic and Toyota in F1



Since the inception of Toyota's Formula 1 team, Panasonic Toyota Racing, in 2001, Panasonic has been much more than just the title sponsor. By working together closely with the team Panasonic has also been able to contribute technically to the teams success in one of the most competitive sports in the world.



PCs

To begin with, Formula 1 cars do not just have a turn key ignition like normal road cars – instead a laptop is needed, and it's a Panasonic unique magnesium-encased Toughbook-series of laptops which perform this task for Panasonic Toyota Racing. A Toughbook is attached to the car, the engine is initially turned over without a spark such that it generates all the pressures in the various systems, and the Toughbook is used to analyse that all is functioning correctly



TELEVISIONS

The Panasonic Toyota Racing garage and motorhomes are the most technologically advanced in the Paddock and contain numerous LCD and Plasma TVs. Panasonic Viera LCDs, due to their bright backlights, are used in the pit garage to display the telemetry information collected from the car during races – vital information which needs to be shared with all engineers. Unusual for an LCD, Viera LCDs boast ultra-wide 178 degree viewing angles, meaning that there is no problem for the all the pit crew to crowd around and see it. Furthermore, the motorhome is filled with luxury large-screen Viera Plasma TVs – ideal for watching the races unfold in beautiful, high definition quality – and equally good for showing films to help the mechanics wind-down after a hard day's work!



CAMCORDERS



By filming pit stops on Panasonic's top-of-the-range High Definition camcorders and bringing the detail to life on large-screen Viera Plasma TVs, the engineers can discover vital details that would have otherwise been overlooked.

Overall, through its technical contributions to the team, Panasonic is much more than just a logo on the car – and looks forward to expanding the areas it can contribute towards the teams success.

TIMO GLOCK



- ▶ **ROLE:** Race Driver, Car Number 12
- ▶ **NATIONALITY:** German
- ▶ **BORN:** 18 March 1982
- ▶ **HEIGHT:** 1.69m
- ▶ **WEIGHT:** 64kg
- ▶ **HOBBIES:** Karting, Fitness
- ▶ **FAVOURITE FOOD:** Pasta
- ▶ **FAVOURITE MUSIC:**
Red Hot Chili Peppers, Guns N' Roses
- ▶ **FAVOURITE CIRCUITS:**
Spa-Francorchamps, Monaco



JARNO TRULLI



- ▶ **ROLE:** Race Driver, Car Number 11
- ▶ **NATIONALITY:** Italian
- ▶ **BORN:** 13 July 1974
- ▶ **HEIGHT:** 1.73m
- ▶ **WEIGHT:** 60kg
- ▶ **HOBBIES:** Music, Karting
- ▶ **FAVOURITE FOOD:** Italian
- ▶ **FAVOURITE MUSIC:**
Jazz, Pop, Rock, lots of variety
- ▶ **FAVOURITE CIRCUIT:**
Spa-Francorchamps



Create, Share, Connect

Living in High Definition



DIGITAL HOME CINEMA SYSTEM SETUPS ON PAGES 14-19

DIGITAL HOME CINEMA SYSTEM SETUPS ON PAGES 14-19



DIGA DVD RECORDERS ON PAGES 52-57

DIGA DVD RECORDERS ON PAGES 52-57



BLU-RAY DISC PLAYER ON PAGES 46-51

BLU-RAY DISC PLAYER ON PAGES 46-51

BLU-RAY PLAYERS, DVD RECORDERS & HOME CINEMA SYSTEMS

Using technology honed at the Panasonic Hollywood Laboratories, enjoy films in stunning 1080p High Definition quality thanks to the Panasonic leading Blu-ray players. Furthermore, many of Panasonic's multi-format DVD Recorders and Home Cinema Systems integrate 1080p HD up-conversion technologies so that everything you watch can be enjoyed in HD quality!

**FULL
HD**
1920x1080p

Using the latest HD technology, Panasonic delivers a high-quality and comfortable lifestyle through its extended line-up of Full High Definition consumer electronics. Not only can you be assured of beautiful images, Panasonic has also taken HD one step further by conveniently linking together its products via its ground breaking VIERA Link technology, meaning they are super easy to connect and use too! Welcome to the Panasonic High Definition World!



VIERA FULL-HD / HD READY FLAT SCREEN TVS

The Panasonic VIERA TV range of plasma and LCD flat screen TVs sets the standard for brilliant, ultra-precise image quality. As Panasonic is producing all elements in the TV chain - from professional cameras through to the TVs in our homes - VIERA TVs enjoy the fruits of our high definition technical expertise and deliver exceptional clarity, smooth movement, and deep blacks.

VIERA FULL-HD / HD READY FLAT SCREEN TVS ON PAGES 20-43



FULL-HD / HD READY CINEMA PROJECTORS

Optimised by Hollywood film colourists, Panasonic HD Cinema projectors deliver real cinema quality in your living room!

FULL-HD HOME CINEMA PROJECTORS ON PAGES 44-45



LUMIX DIGITAL STILL CAMERAS ON PAGES 68-81



HD CAMCORDERS ON PAGES 84-95

HD CAMCORDERS & LUMIX DIGITAL STILL CAMERAS

With their Full-HD 1920x1080 progressive recording, the new HD camcorders are equipped with today's most advanced technology. Exceptional resolution, rich details and movie-like quality are just a few benefits of Panasonic new High Definition camcorders. What's more, all new Lumix cameras are able to record still pictures in 16:9 format with 1920x1080 pixels. This image ratio is perfect for viewing pictures on Full-HD plasma TVs.

VIERA Design

When Panasonic began to develop its design vision for VIERA in 2008, its main aspiration was to produce designs that are suitable for a wide range of users and to devise a premium design series that underlines the unique identity that makes Panasonic products instantly recognisable.





VIERA

The focus of the flat screen TV market, especially within the premium class segment, has shifted towards a slim, lightweight design utilising high-end materials. Taking this trend into account, a key factor of importance in the 2008 Panasonic VIERA design approach is to integrate European style and taste into this year's range of VIERA TVs. The approach to the design process can be described as "Innovative Design". The basic concept central to innovative design includes continuous innovation, values for the future and a keen sensitivity to harmony and balance in the home. In comparison to its predecessor, the 2008 design has been enhanced and yet has retained its consistency, from the smaller-sized LCD TVs right through to the largest Plasma TVs. The result of our endeavours towards a unique

design concept is to use one sheet of glass making the screen completely flat, thus giving it the impression of it literally "floating". This is a major step for Panasonic: developing a unique concept in one year while maintaining the design and the renowned Panasonic construction quality. Historically, the Panasonic brand has been addressing a more mature consumer base than other brands; therefore to meet the needs of these consumers, we have maintained a progressive, sensitive and timeless design rather than turning to an avant-garde, trendy design. With that said, we have been regenerating the brand to address the needs of a younger consumer base as well. VIERA's simple, straight line and organically-balanced shape makes for an overall attractive design that stands out from the crowd.

VIERA Link

One Remote, Total Control



Panasonic engineers devote a lot of time to improving ways to make it easier for you to enjoy your Panasonic components. A great example of their innovation is the VIERA Link. VIERA Link gives you unprecedented power over compatible Panasonic products. Now, you can use just a single remote control to manage your entire AV system. VIERA Link uses the control signals that are transmitted through an HDMI cable for automated functions. Just press the VIERA Link button on the VIERA TV remote to control your entire Panasonic home cinema components.



Home Cinema Connection

Seamless GUI – Control your Home Cinema with the VIERA Remote Control. When the TV is on, the VIERA Link function lets you switch to home cinema mode using just the VIERA remote control unit. Simply press the VIERA Link button on the VIERA remote control and select “Home Cinema” on the VIERA Link menu screen. The Home Cinema system’s menu will be displayed on the TV screen, and you can begin playback of a DVD disc or select from the DVD disc menu.



Blu-ray Disc Player Connection

By simply pressing the VIERA Link button on the VIERA Remote Control and selecting “Player” you can directly operate your Blu-ray Disc Player with the VIERA Remote Control. You can start the playback of a Blu-ray Disc, select from the Blu-ray Disc menu or even change settings in the menu of the Player. All of this is possible by using only the VIERA remote control.



One-Touch Home Cinema Playback with VIERA Remote
 Just press the "Play" button of the VIERA remote control and let Panasonic do the rest. All components turn on, the correct VIERA input is selected, the TV built-in speaker sound is muted, and the Home Cinema starts playback. It all happens automatically and in an instant.

DVD Recorder Connection

Suppose that while you are watching one TV programme you decide that you want to play a previously recorded programme, or set the unit to record a future broadcast. Simply press the VIERA Link button, and the TV menu screen automatically switches to the VIERA Link menu screen. After selecting the DVD recorder on the menu screen, it allows you to set timer recordings or use playback functions on the fly. All of these operations can be done using only the VIERA remote control.



HD Camcorder Connection

By connecting a Panasonic HD Camcorder to your VIERA with an HDMI cable, you can display a control panel for HD camcorder operation onto the VIERA screen. Then simply use the VIERA remote control to play back the camera. You get high-quality HD images and sounds with a simple connection and super-easy operation.



Home Cinema

The True Full-HD Experience



Breathtaking from design to performance – Panasonic offers a full line-up of high definition and Blu-ray products that perfectly use the outstanding possibilities for picture and sound experience given by Blu-ray.



TH-50PZ800

VIERA 50 Inch
Full-HD Plasma TV

- See page 32 for details



DMP-BD55

Blu-ray Disc Player
with SD-Card

- See page 50 for details



SA-BX500

AV-Control Receiver

- See page 65 for details



SB-TP1000

Blu-ray Theatre
Speaker System

- See page 65 for details

Home Cinema

Premium Design and Performance



This exciting system combines the perfect picture of our outstanding Full-HD Plasma TV with a Home Cinema System, which offers powerful sound, a sharp picture and easy connectivity with portable audio players. Thanks to its marvellous design it is even beautiful when it is switched off.



TH-50PZ80
VIERA 50 Inch
Full-HD Plasma TV

• See page 36 for details



SC-PT860
5.1 Channel
DVD Home Cinema System

• See page 63 for details

Home Cinema

Entertainment perfectly adjusted to your taste



Configure a Home Cinema System just the way you wish by selecting from wide line-ups of HDD / DVD Recorders or high-quality DVD Players, powerful Home Cinema Receivers and Surround Speaker Sets to perfectly match your individual needs.



TX-37LZD800
VIERA 37 Inch
Full-HD Wide LCD TV

• See page 39 for details



DMR-EX88
DIGA DVD Recorder
with 400GB HDD

• See page 56 for details



SA-BX500
AV-Control Receiver

• See page 65 for details



SB-TP100
Home Cinema
Speaker Set

• See page 65 for details

Home Cinema

Surround experience from just three speakers



With its two front speakers and a subwoofer, this stylish system is easy to install. But you can enjoy virtually the same kind of powerful, lifelike sound and dynamic acoustic presence you get with a 5.1 Channel System.



TX-37LZD800
VIERA 37 Inch
Full-HD Wide LCD TV

• See page 39 for details



SC-PTX50
2.1 Channel
DVD Home Cinema System

• See page 62 for details

Home Cinema

Compact system, huge performance



Despite of its compact dimensions this system is a complete audio/video solution. You can enjoy DVD Playback with exciting picture quality thanks to the Up-Conversion to 1080p high-resolution images output via the HDMI connector. With its 2-way bass reflex-speakers with PP Mica woofer you can also experience outstanding music entertainment from CD, radio tuner or your connected Portable Audio Player.



TX-37LZD80
VIERA 37 Inch Full-HD LCD TV

• See page 41 for details



SC-PM86D
DVD Micro Home Cinema with HDMI

• See page 66 for details



This Home Cinema TV Stand System already includes a 3.1 Speaker System as well as all needed amplifiers. You simply connect your TV and your Blu-ray Disc Player, your DVD Recorder or DVD Player and you are ready to get powerful Virtual Surround Sound. Thanks to VIERA Link all of this is easy to operate just with the remote control of your new VIERA TV.



TH-50PZ800

VIERA 50 Inch
Full-HD Wide Plasma TV

- See page 32 for details



SC-HTR310

Home Cinema TV Stand System

- See page 64 for details

Home Cinema
The all-in-one easy set-up entertainment solution





Panasonic continues with its 2008 line-up to strengthen the VIERA end-to-end pedigree through its four pillars of unique excellence.



Superior Picture

Thanks to V-real 3 and V-real PRO 3 technology, VIERA delivers images of mesmerising beauty. This superb picture technology enables you to see all the grand detail of fast moving onscreen images, so you never miss a moment of an action movie or sporting event!

Brilliant Sound

Equipped with V-AUDIO and V-AUDIO Surround sound, Panasonic's unique sound technology, VIERA televisions deliver crystal-clear sound with superior bass performance.

Easy Operation

Most VIERA TVs come with an SDHC memory card slot that makes it easy to view photos and even play back Full-HD (AVCHD) moving pictures. Using VIERA Link, the remote control can also be used to operate other Panasonic AV devices.

Outstanding Design

With a unique integrated design and One Sheet of Glass design concept, VIERA offers you the most stylish and desirable display.

The Viera Concept 2008: Fast Moving Picture Performance

EVERY
MOMENT
MATTERS



VIERA PLASMA AND LCD TELEVISION TECHNOLOGY

Brilliant Images with Exquisite Details

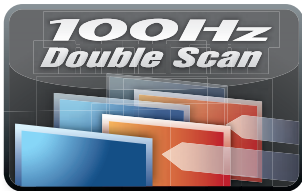
VIERA

VIERA TVs feature Panasonic's image-enhancing system V-real PRO 3, which applies full-digital processing to the 1920 x 1080 high-definition video signals received from HD broadcasts and Blu-ray discs. Because the signals are processed digitally from initial input all the way to final display, there is virtually no loss of image quality. Pictures are exquisitely clear and remarkably detailed, with even delicate textures and patterns visible. With its 1920 x 1080p resolution, the VIERA full HD panel displays beautiful images without needing to perform pixel conversion for the 1080p video signals processed by the video circuitry. Panasonic offers the full HD panel in 32-inch and larger models.

**FULL
HD**
1920X1080p

**HD
ready**
1080p

Motion Processing Technology



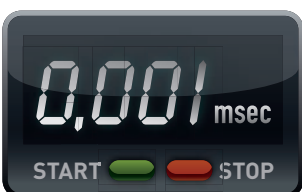
PLASMA: SMOOTH MOVING PICTURES WITH 100 HZ DOUBLE SCAN

The standard European PAL broadcast signal is 50Hz – meaning that the on-screen image on your TV is refreshed 50 times each second. However, VIERA plasma TVs have 100Hz Double Scan technology built in, meaning that the screen refresh rate is doubled, resulting in flicker-less and beautifully smooth moving images.



PLASMA: EXCELLENT MOTION-IMAGE RESOLUTION WITH INTELLIGENT FRAME CREATION

In order to deliver you the smoothest possible on-screen motion, our high-end VIERA plasma TVs come equipped with Intelligent Frame Creation technology. Using the formidable computing power of V-Real PRO 3 processor, motion compensated additional frames are created and inserted between the source frames resulting in ultra-smooth on-screen movement. Furthermore, when it comes to original movie material that is shot in 24p format, 24p Real Cinema technology kicks-in and reduces judder ensuring that original content is super smooth!

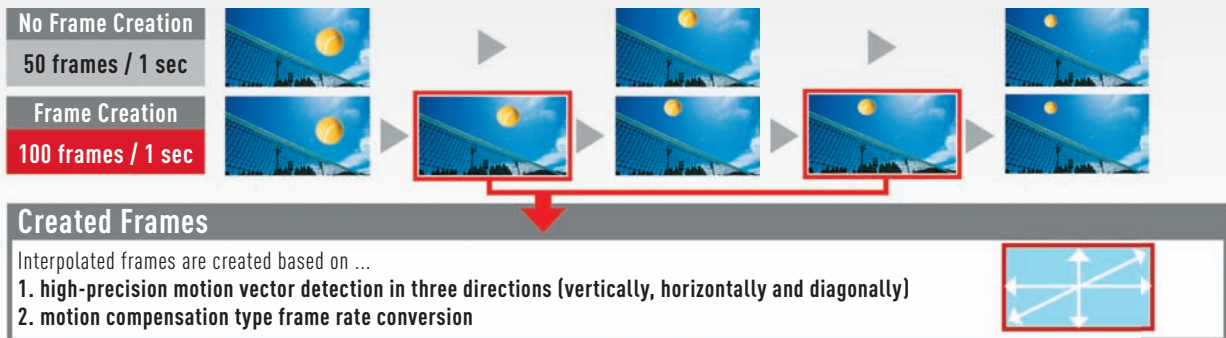


PLASMA: HIGH SPEED PERFORMANCE WITH 0.001 MILLISECONDS RESPONSE TIME

VIERA Plasma TVs are using self-illuminating cells instead of liquid crystal displays enabling them to achieve an ultra-fast response time of 0.001 milliseconds which makes them especially good when it comes to fast moving images like those seen in sporting events or gaming.



FAST SCENES WITHOUT MOTION BLUR



LCD: 100HZ MOTION PICTURE PRO

When watching fast moving sporting events or movies on TV, you want to enjoy all the action without motion blur. Thanks to the Panasonic 100Hz Motion Picture Pro technology for LCDs, "motion picture lag" has been significantly reduced. By creating intermediate frames and inserting them between the original frames, VIERA LCD TVs are able to deliver crystal clear images, even when fast motion is displayed, making VIERA LCDs ideal for watching action movies, football games and broadcasts of other sporting events.



LCD: 100HZ MOTION PICTURE PRO 2 WITH MOTION FOCUS TECHNOLOGY

100Hz Motion Picture Pro 2 utilises Motion Focus technology which works by optimising the back light according to fast moving contents. This combination of technologies has been especially developed for viewers who refuse to compromise when it comes to capturing fast action. You will also be able to enjoy flicker-free viewing of scrolling news tickers which can sometimes be difficult to read.



Picture Processing Technology



LCD / PLASMA: SUPERIOR V-REAL PICTURE QUALITY

All VIERA TVs are equipped with the Panasonic award-winning V-Real picture technology which perfectly optimises the performance of the display panel to render smooth, crystal-clear motion without compromising on delicate colours with rich gradation. Most of our 2008 models are equipped with V-Real PRO 3 for full HD, and V-Real 3 for HD ready TVs.

Advanced Panel Technology

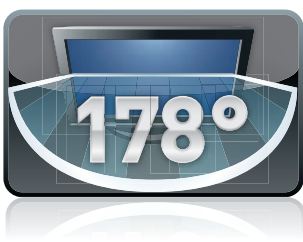
PLASMA: 11TH GENERATION PANELS

Boasting beautiful colour reproduction, and precise fluid on-screen motion, these 11th generation panels break new ground, even for us! Furthermore, the plasma TVs are environmentally friendly as they are both lead-free and designed to deliver a long panel lifetime of up to 100,000 hours – giving you many years of superb entertainment.



PLASMA: VIERA TOUGH PANEL

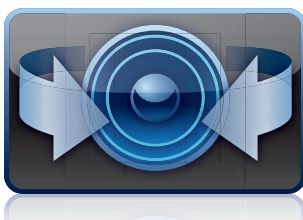
The VIERA Tough Panel provides a high resistance of impact up to four joule; the glass adds extra assurance of protection if the TV screen is accidentally hit. Additionally, the protective panel makes cleaning the screen easier by simply wiping the panel with a soft cloth when necessary.



LCD: WIDE 178 DEGREE VIEWING ANGLE WITH IPS ALPHA PANEL

Many LCDs suffer from colour wash-out when not viewed from directly in front – a big problem if you have a large family trying to watch a film together. VIERA LCD IPS alpha panels have a viewing angle of 178 degrees, both vertically and horizontally, eliminating faded images that can occur by viewing the panel from certain seating positions. Our LCD panels are built on the strengths of IPS by delivering faster response time and reproducing intense realistic deep black levels and contrast ratios, especially when employed with Panasonic Intelligent Scene Controller technology.

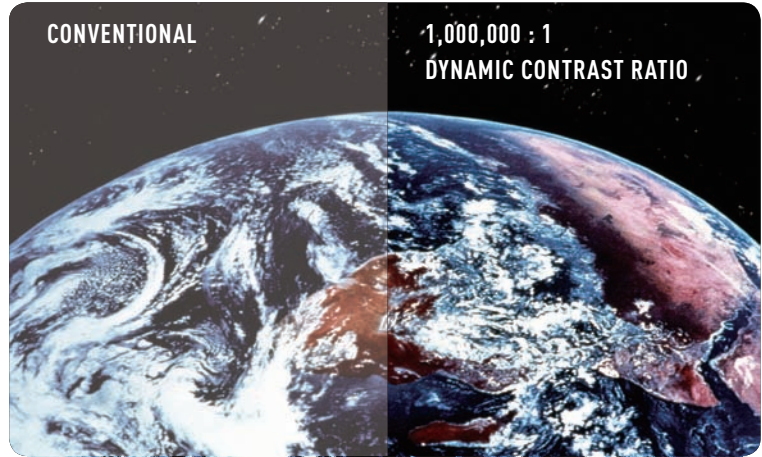
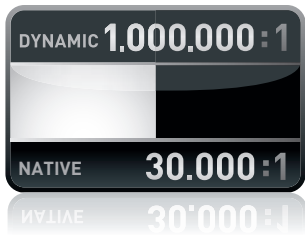
Sound Technology



PLASMA/LCD: BRILLIANT SOUND WITH V-AUDIO

Panasonic VIERA televisions deliver the best of sound with V-AUDIO Surround and V-AUDIO technologies. V-AUDIO Surround features Panasonic's unique digital amplifier, carbon speaker and slim side speaker design and also features SRS Tru Surround XT or BBE ViVA HD3D Sound.

Advanced Contrast Technology



PLASMA: RICH BLACK IN DARK SCENES WITH 1,000,000 : 1 DYNAMIC CONTRAST RATIO

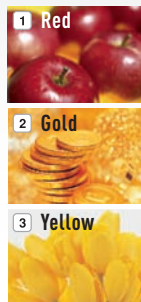
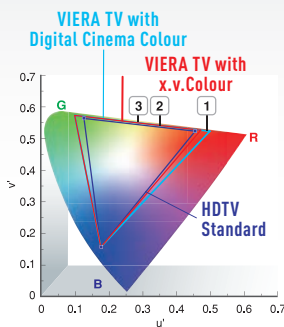
Most of our latest VIERA plasma TVs are able to achieve a staggering 1,000,000 : 1 dynamic contrast ratio – meaning that on-screen blacks are not grey or dark grey, but a true, deep, silky black. Dramatic scenes will feel even more exciting, immersing you completely in the action!

LCD: INTELLIGENT SCENE CONTROLLER – TRUE-TO-LIFE PICTURE WITH CRISP BLACKS

This system adjusts the back light brightness and contrast according to the scene. In dark scenes, the back light intensity is reduced to reproduce deeper blacks. In addition, by shifting the gradation to the brighter side in a bright scene and to the darker side in a dark scene, this system increases the image density by up to four times. This not only helps prevent blackout, it lets VIERA accurately convey even subtle differences in the blackness level.

Colour Processing Technology

DIGITAL CINEMA COLOUR AND X.V.COLOUR*



PLASMA/LCD: RICH AND NATURAL COLOUR

Digital High-Definition TV broadcast transmissions are based on a set of specifications called the HDTV standard**. The wide colour gamut of VIERA full HD TVs with Digital Cinema Colour covers 120% of the conventional HDTV colour standard. The result is a level of colour expression that approaches the colour standard of the Digital Cinema Initiative***. This wide gamut achieves richer, more vivid colouring from x.v.Colour signals. Even the wide colour gamut of VIERA full HD TVs without Digital Cinema Colour (but with x.v.Colour technology) covers 110% of the conventional HDTV colour standard.

* x.v. Colour is a trademark

** Name of standard: ITU-R BT.709

*** Digital Cinema Initiative is a Joint Venture of Disney, Fox, Paramount, Sony Pictures and Warner Bros.

VIERA

VIERA PLASMA AND LCD TELEVISION TECHNOLOGY

Easy Operation



VIERA LINK – ONE REMOTE, TOTAL CONTROL

Use an HDMI cable to connect your VIERA TV to a DIGA DVD recorder, Blu-ray disc player, HD Camcorder or any other compatible device, and you can use the VIERA remote control to operate the connected equipment. Say good-bye to the confusion and hassle of switching between several different remote control units. With VIERA Link, you'll find it easy to enjoy the superb entertainment home cinema offers.



VIEW YOUR VIDEO AND PHOTOS WITH SDHC CARD READER

Just insert an SD or SDHC Memory Card into the slot on your VIERA TV, and your high-definition photos and AVCHD videos* will fill the large screen. The viewing is simply sensational. VIERA's advanced imaging technologies bring your images dramatically to life, with vibrant colour and extraordinary detail.

*on selected plasma models



EASY CONNECTION OF HD SOURCES WITH HDMI INPUT

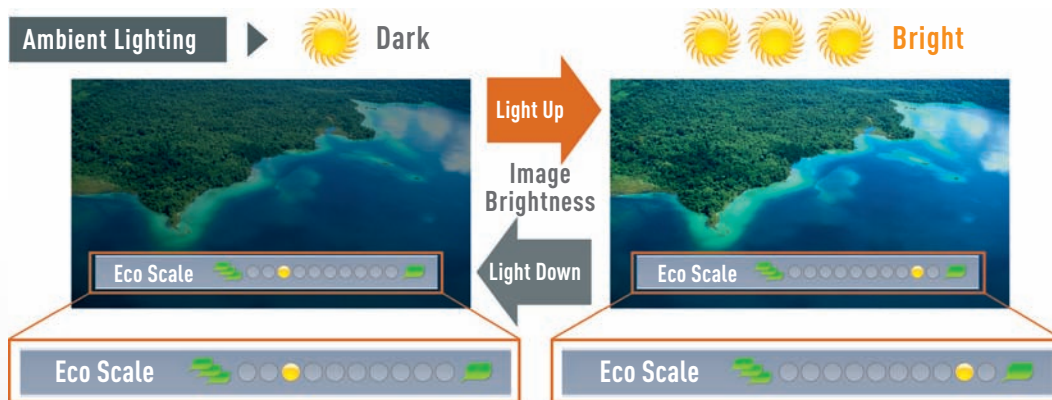
VIERA flat TVs are equipped with up to four HDMI ports making it incredibly easy to connect High Definition sources like Blu-ray Disc players, HD camcorders, gaming consoles, and some satellite set-top boxes. All VIERA fully utilise the control possibilities of HDMI to link all your AV products via VIERA Link and allow easy operation whilst using only one remote control.

Eco Features



SAVING ENERGY WITH ECO MODE

People are increasingly concerned about the energy consumption of their electronic products. Therefore Panasonic has introduced an Eco Mode as standard in most VIERA TVs. Having activated the Eco Mode, a photo-sensor measures the ambient light conditions in the room, and the picture settings are adjusted automatically. As a result, the TV uses less power in dark light conditions without any deterioration in picture quality. In the Eco Demo Mode the Eco scale can be displayed on the TV screen to show how the energy consumption levels change with ambient lighting.



ECO DEMO MODE



PLASMA: LEAD FREE DISPLAY – MAKING PRODUCTS MORE EASILY RECYCLABLE

The use of lead is prohibited by the RoHS Directive, but processed glass products are exempt from this regulation because the development of an alternative material is difficult. For VIERA plasma TVs, Panasonic has developed a lead alternative substance and eliminated the use of lead in plasma TVs for the first time in the world. This reduces the impact on the environment when recycling or disposing of them in the future.



PLASMA: LONG SERVICE LIFE – UP TO 100,000 HOURS OF VIEWING FUN

VIERA full HD plasma display panels are designed to provide a panel lifetime of up to 100,000 hours, giving you years and years of superb entertainment. There is no back light that loses brightness over time, so you can count on high-quality images for many years.

VIERA with freesat HD



freesat ... is the NEXT BIG THING

The BBC and ITV bring you freesat, a brand new digital satellite TV service giving you free HD programmes at no extra cost. freesat has no contract, no subscription, just a one-off payment for the TV, satellite dish and installation. And because freesat is broadcast via satellite, it will be available to almost every household in the UK.

THE PZ81 SERIES (page 34)

The PZ81 series is the first TV in the UK to feature a freesat built-in HD tuner enabling subscription free HD channels. It also offers Intelligent Frame Creation, a superb wide colour gamut thanks to x.v.Colour* and 24p Real Cinema for enhanced judder-free playback. In addition the AVCHD facility enables viewing of High Definition camcorder footage.

Also now available, the new LZD81 series is the first LCD TV in the UK with freesat built-in.

THE LZD81 SERIES (page 40)



* x.v. Colour is a trademark

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Your favourite channels,
and loads of them!



Over 80 of the most popular channels and **many more being added every month**. Our line-up will just get better and better.

From movies and sport to entertainment and children's channels, there's something for the whole family to enjoy.

freesat choice for everyone



The Channel logos are trade marks and copyright of their respective owners.

*Five available this year.

VIERA Plasma Line up



THE PZ800 SERIES

Boasting a Full HD panel and packed with all our latest vision enhancing technologies, the PZ800 series is our flagship model especially designed for people who don't want to compromise on quality. Not only does the One-Sheet-of-Glass design look stunning, it also features playback of Full HD images directly from the built-in SD Memory card slot and an amazing four HDMI ports to maximise its connectivity potential. Quite simply the best plasma TV we have made to date!



THE PZ81 SERIES

The PZ81 series are the first TVs in the UK to feature a freesat built-in HD tuner enabling subscription free HD channels. It also features Intelligent Frame Creation, a superb wide colour gamut thanks to x.v.Colour* and 24p Real Cinema for enhanced judder-free playback. In addition the AVCHD facility enables viewing of high definition camcorder footage.

* x.v. Colour is a trademark

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THE PZ85 SERIES

Featuring Intelligent Frame Creation and a superb wide colour gamut thanks to x.v.Colour*, the PZ85 series is the premium Full HD plasma TV. It also features HD Photo Viewer from the built-in SD memory card slot and 24p Real Cinema for enhanced judder-free playback.



THE PZ80 SERIES

This is our core series of Full HD VIERA plasma TVs featuring 100Hz Double Scan to ensure beautiful, flicker-free on-screen motion, and an extra wide colour gamut thanks to x.v.Colour*. It also comes with three HDMI ports to connect to all your AV equipment such as Blu-ray Disc player, DVD recorder, and camcorders.

* x.v. Colour is a trademark



THE PZ8 SERIES

The Full HD PZ8 series of products is for those who want to enjoy the best picture quality at a price range suiting their budget. With a super-fast response time of just 0.001 milliseconds and 100Hz Double Scan technology, all on-screen action will be crisp and fluid!



THE PX80 SERIES

This HD-Ready plasma TV comes complete with V-real 3 technology to enhance picture performance and 100Hz Double Scan ensuring crisp, smooth on-screen motion. It also has three HDMI inputs, a PC input and a built-in SD memory card slot allowing you to enjoy all your photos in HD quality!



THE PX8 SERIES

The HD-Ready PX8 series of products is for those who want to enjoy the best picture quality at a price range suiting their budget. With a super-fast response time of just 0.001 milliseconds and 100Hz Double Scan technology, all on-screen action will be crisp and fluid!



VIERA LCD Line up

THE LZD800 SERIES



The LZD800 series comes with our largest ever 37-inch IPS-alpha panel and is the pinnacle VIERA Full HD LCD TV. Packed with picture enhancing technologies like 100Hz Motion Picture Pro 2 for beautiful, flicker-free on-screen motion, you won't miss a moment of the action! It also has V-Audio Surround sound for the home cinema experience and 24p Film so that you can playback original movie content in perfect judder-free clarity too!

THE LZD81 SERIES



The LZD81 series are the first LCD TV's in the UK to feature a freesat built-in HD tuner enabling subscription free HD channels. The LZD81 has a dynamic contrast ratio of 10,000:1 and intelligent scene controller technology to ensure consistent deep black level and crisp on screen motion. Available in 37-inch and 32-inch screen sizes.

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THE LZD85 SERIES



Available in both 37-inch and 32-inch IPS-alpha panels, this high-end Full HD LCD TV series come with 100Hz Motion Picture Pro 2 to ensure all on-screen action is smooth and clear. It also features VIERA link so you can operate all your compatible AV equipment with just one remote control. With three HDMI inputs you are not limited in connectivity.



THE LZD80 SERIES

Our core Full HD series, the LZD80 boasts dynamic contrast ratio of an amazing 10,000:1 and Intelligent Scene Controller technology to ensure a consistent deep black level and crisp on-screen motion. It also has a built-in SD memory card slot to allow you to watch your photos in HD quality, right in the comfort of your own living room!



THE LXD85 SERIES

The LXD85 series is our HD-Ready LCD TV range, equipped with our own 100Hz Motion Picture Pro technology to keep all the on-screen action smooth and flicker-free. Additionally, it also achieves an amazing dynamic contrast ratio of 10,000:1 so that, unlike some LCD TVs, the blacks are really black! Available in 32-inch IPS Alpha Panel.



THE LXD80 SERIES

The HD-Ready LXD80 series combines modern design with state of the art technology. Additionally they have VIERA LINK for easy operation and built-in SD memory card slot to allow you to watch your photos in HD quality. Available in 32-inch and 26-inch screen sizes.



THE LXD8 SERIES

The HD-Ready LXD8 series of TV's is for those who want to enjoy the best picture quality at a price range suiting their budget. Available in screen sizes 32-inch, 26-inch and 19-inch.

VIERA

The Plasmas

VIERA Plasma TVs provide the best picture quality ideally suited for movies and sports. With excellent contrast the full impact of the movie can be appreciated. Fast motion is also captured thanks to the high-speed response time of only 0,001 milliseconds.



TH-65PZ800B

PREMIUM VIERA 65 INCH (165 cm)
FULL-HD WIDE PLASMA TV

- Full HD Plasma G11 Panel
1920 x 1080 Pixels
- 100Hz Double Scan
- Intelligent Frame Creation
- V-real PRO 3 Technology
- 5,120 Equivalent Steps of Gradation
- 1,000,000:1 Dynamic Contrast
30,000:1 Native
- 0.001 msec. Response Time
- Digital Cinema Colour
- x.v. Colour*
- 24p Real Cinema
- 4 x HDMI
- Additional Features

Enhanced VIERA Link, Single sheet of glass design, SDHC Card Networkability (HD-JPEG Photo Viewer/ AVCHD Playback), V-AUDIO Surround Sound, equipped with SRSTruSurround XT, Integrated Digital Tuner, Eco Mode, VIERA Tough Panel, Optional pedestal

* x.v. Colour is a trademark



TH-58PZ800B

- Same as TH-65PZ800B, but 58 Inches (147 cm)
- Pedestal included or Wall Hanging Bracket optional

TH-50PZ800B



- Same as TH-65PZ800B, but 50 Inches (127 cm)
- Pedestal included, Video Cabinet or Wall Hanging Bracket optional

TH-42PZ800B

- Same as TH-65PZ800B, but 42 Inches (106cm)
- Pedestal included, Video Cabinet or Wall Hanging Bracket optional





TH-50PZ81B

VIERA 50 INCH (127cm) FULL-HD WIDE PLASMA TV WITH FREESAT HD

- freesat HD* and Freeview Integrated Digital Tuners
(freesat requires connection to suitable satellite dish)
- Full HD Plasma G11 Panel
1920 x 1080 pixels
- 100Hz Double Scan
- Intelligent Frame Creation
- 24p Real Cinema
- V-real PRO 3 Technology
- 5,120 Equivalent Steps of Gradation
- 1,000,000:1 Dynamic Contrast
30,000:1 Native
- x.v. Colour**
- Dolby Digital Optical Audio Out


with **freesat HD**

- 24p Playback
- 3 x HDMI
- Additional Features
Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG and AVCHD), V-AUDIO Sound, Eco Mode, VIERA Tough Panel, Pedestal included, Video Cabinet or Wall Hanging Bracket optional
- * freesat HD is a trademark
- ** x.v. Colour is a trademark

TH-46PZ81B

- Same as TH-50PZ81B, but 46 Inches (116 cm)

TH-42PZ81B

- Same as TH-50PZ81B, but 42 Inches (106 cm)



TH-50PZ81B
TH-46PZ81B



TH-46PZ81B



TH-46PZ81B



TH-50PZ81B



TH-46PZ85B

HIGH-END VIERA 46 INCH (116 cm)
FULL-HD WIDE PLASMA TV

- Full HD Plasma G11 Panel
1920 x 1080 pixels
- 100Hz Double Scan
- Intelligent Frame Creation
- V-real PRO 3 Technology
- 5,120 Equivalent Steps of Gradation
- 1,000,000:1 Dynamic Contrast
30,000:1 Native
- 0.001 msec. Response Time
- x.v. Colour*
- 24p Real Cinema
- Slim Design



- 3 x HDMI
- Additional Features
Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG Photo Viewer), V-AUDIO Surround Sound, equipped with BBE VIVA HD3D Sound, Integrated Digital Tuner, Eco Mode, VIERA Tough Panel, Pedestal included, Wall Hanging Bracket optional

* x.v. Colour is a trademark

TH-42PZ85B

- Same as TH-46PZ85B, but 42 Inches (106 cm)



Plasma Television



TH-50PZ80B

VIERA 50 INCH (127 cm)
FULL-HD WIDE PLASMA TV

- Full HD Plasma G11 Panel
1920 x 1080 pixels
- 100Hz Double Scan
- V-real PRO 3 Technology
- 5,120 Equivalent Steps of Gradation
- 1,000,000:1 Dynamic Contrast
30,000:1 Native
- x.v. Colour*
- 24p Playback
- 3 x HDMI
- SDHC Card Networkability
HD-JPEG Photo Viewer

* x.v. Colour is a trademark

• Additional features

Enhanced VIERA Link, V-AUDIO Sound, Integrated Digital Tuner, Eco Mode, VIERA Tough Panel, Pedestal included, Video Cabinet or Wall Hanging Bracket optional

TH-46PZ80B

- Same as TH-50PZ80, but 46 Inches (116 cm)



Stuff

WHAT HI-FI?
SOUND AND VISION



TH-42PZ80B

- Same as TH-50PZ80, but 42 Inches (106 cm)

HDTVtest
HIGHLY
RECOMMENDED

WHAT HI-FI?
SOUND AND VISION



VIERA



TH-46PZ8B

VIERA 46 INCH (116cm)
FULL-HD PLASMA TV

- 100Hz Double Scan
- V-real PRO 2 Technology
- 24p Playback
- Full HD
1920 x 1080p
- 20,000:1 High Contrast Native
- 4,096 Equivalent Steps of Gradation
- 2 x HDMI
- 2 x Scart
- Additional features

Enhanced VIERA Link, Horizontal Arch Design,
Eco Mode, VIERA Tough Panel, Lead Free Panel,
Pedestal included

TH-42PZ8B

- Same as TH-46PZ8B,
but 42 Inches (106 cm)

Plasma Television



TH-42PX80B

VIERA 42 INCH (106 cm)
HD-READY WIDE PLASMA TV

- HD ready G11 Plasma Panel
- 100Hz Double Scan
- V-real 3 Technology
- 4,096 Equivalent Steps of Gradation
- 15,000:1 Native Contrast
- 0.001 msec. Response Time
- 24p Playback
- 3 x HDMI
- Additional features
Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG Photo Viewer), V-AUDIO Sound, Integrated Digital Tuner, Eco Mode, VIERA Tough Panel, Lead Free Panel, Pedestal included



TH-37PX80B

Same as TH-42PX80B,
but 37 Inches (94 cm)



TH-50PX8B

VIERA 50 INCH (127 cm)
HD-READY WIDE PLASMA TV

- HD ready G11 Plasma Panel
- 100Hz Double Scan
- V-real 2 Technology
- 3,072 Equivalent Steps of Gradation
- 10,000:1 Native Contrast
- 0.001 msec. Response Time
- 24p Playback
- 2 x HDMI
- 2 x Scart
- Additional features
Enhanced VIERA Link, Ambience Sound, Integrated Digital Tuner, VIERA Tough Panel, Lead Free Panel, Pedestal included



TH-42PX8B

Same as TH-50PX8B
but 42 Inches (106 cm)

TH-37PX8B

Same as TH-50PX8B,
but 37 Inches (94 cm)

LCD Television

VIERA

The LCDs

The VIERA award-winning LCD TVs are built on the strengths of IPS-Alpha panels which provide the widest viewing angle.

With 100Hz Motion Picture Pro technology, VIERA LCDs are ideal for watching sport and fast-moving imaging like that in action films.



TX-37LZD800 PREMIUM VIERA 37 INCH (94 cm V Wide) FULL-HD LCD TV

- IPS-Alpha Full HD Panel
1920 x 1080 pixels
- Ultra Wide 178° Viewing Angle
Horizontally & Vertically
- 100Hz Motion Picture Pro 2
with Motion Focus Technology
- V-real PRO 3 Technology
- 10,000:1 Contrast
- Intelligent Scene Controller
- x.v. Colour*
- 24p Film with Cinema Smoother
- Clear Panel
- Additional features
Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG Photo Viewer), V-AUDIO Surround equipped with SRS TruSurround XT, Clear Panel, Integrated Digital Tuner, HDMI x4, Swivel Pedestal included

* x.v. Colour is a trademark

VIERA



TX-37LZD81

VIERA 37 INCH (94 cm V Wide)
FULL-HD LCD TV WITH FREESAT HD

- freesat HD* Integrated Digital Tuner
(freesat requires connection to suitable satellite dish)
- IPS-Alpha Full HD Panel
1920 x 1080 pixels
- Ultra Wide 178° Viewing Angle
Horizontally & Vertically
- V-real PRO 3 Technology
- 10,000:1 Contrast
- Intelligent Scene Controller
- x.v. Colour**

with  **freesat HD**

- 24p Playback
- Additional features
Enhanced VIERA Link, PC Input, SDHC Card Networkability
(HD-JPEG Photo Viewer), V-AUDIO Surround equipped with BBE
ViVA HD3D, HDMI x3, SCART x2, Eco Mode, Swivel Pedestal included
- * freesat HD is a trademark
- ** x.v. Colour is a trademark

TX-32LZD81

- Same as TX-37LZD81, but 32 Inches (80 cm V Wide)

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LCD Television



WHAT HI-FI?
SOUND AND VISION



TX-37LZD85

HIGH-END VIERA 37 INCH
(94 cm V Wide) FULL-HD LCD TV

- IPS-Alpha Full HD Panel
1920 x 1080 pixels
- Ultra Wide 178° Viewing Angle
Horizontally & Vertically
- 100Hz Motion Picture Pro 2
with Motion Focus Technology
- V-real PRO 3 Technology
- 10,000:1 Contrast
- Intelligent Scene Controller
- x.v. Colour*
- 24p Film with Cinema Smoother

• Additional features

Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG Photo Viewer), V-AUDIO Surround equipped with BBE VIVA HD3D, Integrated Digital Tuner, HDMI x3, Swivel Pedestal included

* x.v. Colour is a trademark



TX-32LZD85

- Same as TX-37LZD85,
but 32 Inches (80 cm V Wide)

TX-37LZD80

VIERA 37 INCH
(94 cm V Wide) FULL-HD LCD TV

- IPS-Alpha Full HD Panel
1920 x 1080 pixels
- Ultra Wide 178° Viewing Angle
Horizontally & Vertically
- V-real PRO 3 Technology
- 10,000:1 Contrast
- Intelligent Scene Controller

- x.v. Colour*
- 24p Playback

• Additional features

Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG Photo Viewer), V-AUDIO Surround equipped with BBE VIVA HD3D, Integrated Digital Tuner, HDMI x3, Swivel Pedestal included

* x.v. Colour is a trademark



TX-32LZD80

- Same as TX-37LZD80, but 32 Inches (80 cm V Wide)



VIERA



TX-32LXD85

VIERA 32 INCH
(80cm V Wide)
HD-READY LCD TV

- IPS-Alpha HD ready Panel
- Ultra Wide 178° Viewing Angle
Horizontally & Vertically
- 100Hz Motion Picture Pro
- V-real 3 Technology
- 10,000:1 Contrast
- Intelligent Scene Controller
- 24p Playback
- Additional features

Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG Photo Viewer), V-AUDIO Sound, Integrated Digital Tuner, HDMI x3, Swivel Pedestal included



VIERA **HD ready** **100Hz motion picture pro** **V-real³** **INTELLIGENT SCENE CONTROLLER** **V-AUDIO**

VIERA Link **HDMI** **PC in** **digital** **GEMSTAR**



TX-32LXD80

VIERA 32 INCH (80cm V Wide) HD-READY LCD TV

- IPS HD ready Panel
- Ultra Wide 178° Viewing Angle
Horizontally
- V-real 3 Technology
- 8,000:1 Contrast
- 3D Colour Management
- 24p Playback
- Additional features

Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG Photo Viewer), V-AUDIO Sound, Integrated Digital Tuner, HDMI x3, PC input, Pedestal included

VIERA **HD ready** **V-real³** **V-AUDIO**

VIERA Link **HDMI** **PC in** **digital** **GEMSTAR**

TX-26LXD80

VIERA 26 INCH (66cm V Wide) HD-READY LCD TV

- HD Ready LCD Panel
- V-real 3 Technology
- 8,000:1 Contrast
- 3D Colour Management
- 24p Playback
- Additional features

Enhanced VIERA Link, SDHC Card Networkability (HD-JPEG Photo Viewer), V-AUDIO Sound, Integrated Digital Tuner, HDMI x3, PC input, Pedestal included

LCD Television



TX-32LXD8

VIERA 32 INCH
(80 cm V Wide)
HD-READY LCD TV

- IPS HD ready Panel
- Ultra Wide
178° Viewing Angle
Horizontally
- V-real 3 Technology
- 8,000:1 Contrast
- 2 x HDMI
- 24p Playback
- Additional features
Enhanced VIERA Link,
Ambience Sound, Integrated Digital
Tuner, Pedestal included

TX-26LXD8

VIERA 26 INCH
(66cm V Wide)
HD-READY LCD TV

- HD Ready LCD Panel
- V-real 3 Technology
- 2 x HDMI
- 3D Colour Management
- 24p Playback
- Additional features
Enhanced VIERA Link,
Ambience Sound, Integrated Digital
Tuner, Pedestal Included



TX-19LXD8

VIERA 19 INCH (48cm V Wide)
HD-READY LCD TV

- High Resolution HD Ready LCD Panel
(1,680 x 1,050 pixels)
- Intelligent Scene Controller
- 5,000:1 Contrast
- SD Card Reader (HD Photo Viewer)
with Slide Show Feature
- 2 x HDMI
- 24p Playback
- Smart Sound Bottom Speaker System
- Additional features
Enhanced VIERA Link, Integrated Digital Tuner, PC Input,
Headphone Socket, Pedestal Included

Made by Panasonic, Tuned by Hollywood

The PT-AE3000E offers the ultimate home cinema experience with crisp Full-HD images in remarkable detail.

Developed in collaboration with leading filmmakers, Panasonic's Hollywood tuning process produces images that mirror the director's artistic vision and intent. This process maximises the image quality of the Full-HD content in Blu-ray discs and HD broadcasts for large-screen viewing. The carefully tuned optical system teams up with a newly developed Detail Clarity Processor 2 to dramatically boost image clarity.

Full-HD 1920 X 1080 LCD Panels

With 100Hz Motion Picture Pro optimised for large screen viewing and Detail Clarity Processor 2 for unsurpassed clarity and dimensionality.

High Level Contrast Ratio

Panasonic's new Pure Contrast Plate technology and Dynamic Iris control boost the contrast and create incredible black levels.

Built-In Wave Form Monitor

Professional set-up and calibration tool to optimise picture quality no matter what the signal source or surroundings are.

EVERY
MOMENT
MATTERS



PT-AE3000E (1080p)

Full High Definition Home Cinema Projector

- **3-Chip LCD**
Native Full-HD resolution (1,920 x 1,080 pixel)
- **Ultra High Contrast of 60,000:1**
thanks to Pure Contrast Plate technology and crisp 1,600 ANSI Lumen brightness
- **100Hz Motion Picture Pro**
technology for smooth and dynamic motion picture reproduction
- **Detail Clarity Processor 2**
for the perfect image reproduction
- **Intelligent Power Management**
for eco-friendly low power consumption
- **Smooth Screen Technology**
Waveform Monitor 2 for perfect colours and full dynamic range
- **2x Optical Zoom Lens**
with motorised zoom and focus plus lens memory function for easy adjustment of contents to cinema-format wide screen
- **Lens Memory Function**
21:9 or 16:9 for best screen utilisation



DETAIL CLARITY
PROCESSOR 2

100Hz
motion picture
pro

FULL
HD
1080p

HD
ready
1080p



HD
ready

GAME
MODE

WHAT HI-FI?
SOUND AND VISION
★★★★★

BEST BUY
★
COMPUTER
SHOPPER

PT-AX200E (720P)

High Definition Home Cinema Projector

- **High Definition Home Cinema Projector**
with true 1,280 x 720 pixels x 3 Panels Resolution
- **Contrast ratio of 6,000:1**
for sharpest Pictures
- **Game Mode**
for best Picture Quality and fast Response Time in Video Games
- **2 HDMI Interfaces**
- **Bright 2,000 ANSI Lumen**
with Light Harmoniser II technology
- **Additional features**
Advanced Smooth Screen Technology for clear and plain pictures without Grid Effect, Horizontal and Vertical Lens Shift function, Vertical Keystone Correction, Cinema Filter for Natural Colour Matching



Blu-ray Disc Player



DMP-BD55: Get the Maximum out of Blu-ray to enjoy Home Entertainment in Perfection

EVERY DETAIL MATTERS

The new picture quality delivered by Panasonic's latest Blu-ray Disc Player DMP-BD55 is simply stunning. It is a result of our vast experience in Blu-ray technology that enabled us to develop new, state-of-the-art graphic processors such as the PHL Reference Chroma Processor Plus, which plays back every detail with highest precision and faithful colours.

The studio master quality sound, made possible by the use of the latest surround formats like Dolby® TrueHD or DTS™-HD is breathtaking. With the DMP-BD55 you can experience the latest interactive Blu-ray disc features like Picture-in-Picture and BD-Live functions.

The DMP-BD55 is equipped with a slot for SD Memory Cards. Just take the SD Memory Card from your Digital Still Camera or even from your High-Definition Camcorder and you are ready to view HD Photos and motion images on your TV.



Disney's National Treasure: Book of Secrets
 Available on Hi-Def Blu-ray now
 Bundled FREE with BD55/35. Limited offer, while stocks last.

A Full HD Blu-ray Cinema System for your Home

Panasonic offers a full range of high definition products – TVs, Blu-ray Disc Players, Home Theatre Receivers, Home Theatre Speakers, HD Video Cameras and more – that reproduce images and sound with beauty capable of stirring deep emotion.

Easy operation is important. The DMP-BD55 comes equipped with VIERA Link, a function that links

operation of a VIERA Link compatible TV and a HiFi Surround Receiver. So you can control your entire system at the same time with a single remote control.

With a Panasonic Blu-ray Cinema you will discover an entirely new dimension of entertainment with HD-quality images and sound that surpasses everything you have ever experienced.

TH-50PZ800



VIERA full HD Plasma TV

- Best for Watching Sports and Action
- 1 Million:1 High Contrast
- Superb Colour Reproduction
- Easy Operation
- Incredible Surround Sound

SA-BX500



AV Control Receiver

- 7 x 150W (DIN, 6 ohms)
- 3 HDMI inputs for Full-HD
- 1080p Video Transmission
- Dolby Digital Plus, Dolby TrueHD and DTS-HD Master Audio Decoder
- Auto Speaker Setup for Quick and Easy Setting

SB-TP1000



Theatre Speaker System

- Unique Twin Centre Speakers
- Perfect Match for Large-Screen TVs
- High Sound Quality
- Powerful Sound

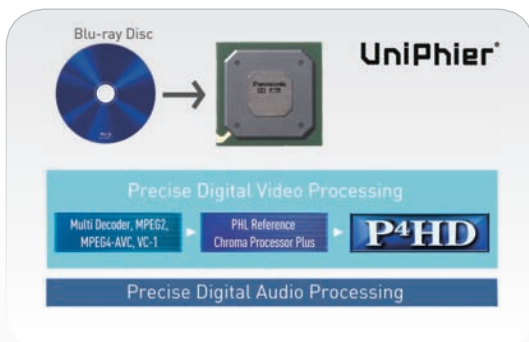
BLU-RAY DISC PLAYERS

Premium Performance for Vision and Sound



Premium Picture Quality

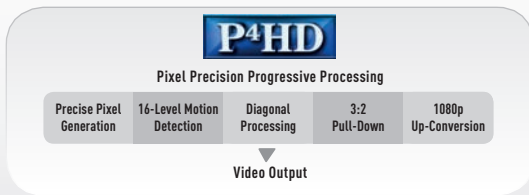
The unique **PHL Reference Chroma Processor Plus** reproduces the fine details and nuances of Blu-ray video streams that have been recorded with a high quality image compression system. It generates images with all the clarity and depth that BD-Video movies have to offer.



Details and nuances that closely match the look of the actual movie

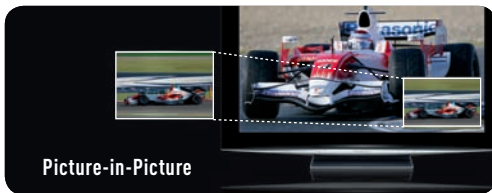


Distinct borders between colours



P4HD processes more than 15 billion pixels per second and applies the optimal processing to every pixel. It can render progressive images superbly, expresses motion smoothly, and draws crisp diagonal lines.

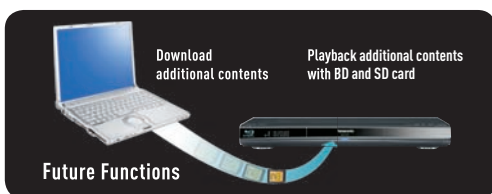
Interactive Functions: BONUSVIEW



Picture-in-Picture



Audio-Mixing



Future Functions

This is an advanced function newly added to the Blu-ray Disc specifications that creates a range of exciting new entertainment possibilities. It introduces attractive functions such as Picture-in-Picture (which displays a second image in a sub-window) and Audio Mixing (enabling you to switch the sound between the main and sub-windows). The BONUSVIEW allows new kinds of bonus movie content.

* Actual functions vary depending on the BD media.

PICTURE-IN-PICTURE

With Picture-in-Picture, a small sub-window is displayed over the main image thus opening a world of additional opportunities.

AUDIO-MIXING

The Audio-Mixing function lets you choose which soundtrack you would like to listen to: the one from the content playing in the main window, the one from the sub-window, or both at the same time.

FUTURE FUNCTIONS

The future is expected to bring a host of imaginative new features. For example, you may be able to purchase and download additional content from a website onto an SD card, and play the movie on the Blu-ray Disc and the content on the SD card at the same time, for new entertainment possibilities.



Premium Sound Quality

COMPATIBLE WITH ALL NEW AUDIO CODECS OF BLU-RAY DISC™

HD AUDIO DECODING AND HDMI OUT

The DMP-BD55 and DMP-BD35 can decode HD Audio (Dolby TrueHD and DTS-HD) and output 7.1ch digital audio signal. The resulting audio is studio master quality sound. This signal can be connected to an HDMI compatible receiver that does not support HD Audio codec*.

7.1CH ANALOGUE OUT (DMP-BD55 ONLY)

The 7.1-channel analogue signal converted by the new 192kHz D/A converter is transmitted in high quality. This signal can be connected to a receiver that does not support HDMI.

HD AUDIO DECODING AND HDMI OUT



* A receiver with 7.1-channel compatibility is required for playback

Easy Operation

HD NETWORKING

All Panasonic Blu-ray Disc Players come equipped with a slot for SD cards. Just take the SD card from your digital still camera or HD camcorder, and you're ready to view HD photos and motion images on your TV.

LINKING WITH AN HD CAMCORDER



Panasonic Blu-ray Disc Players can play back AVCHD-format images shot with an HD camcorder, such as the Panasonic HDC-SD100. Images recorded onto the camcorder SD card are output directly from the DMP-BD55 and DMP-BD35 HDMI terminal in their original, high-quality 1920 x 1080 resolution.

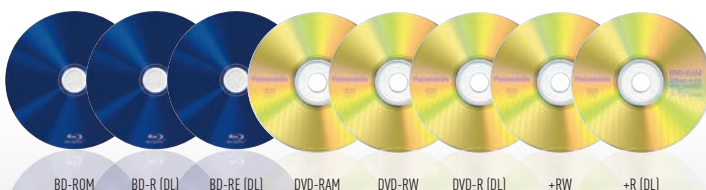
LINKING WITH A DIGITAL CAMERA



The DMP-BD55 and DMP-BD35 can play back JPEG still images from an SD card, such as those recorded with a Lumix DMC-FX37 digital camera. Panasonic Blu-ray Disc Players can output the images to 1920 x 1080 resolution – ideal for a Full-HD TV*. Using the Slide show playback feature, you can play a music CD at the same time you're showing the photos.

* JPEG and other still image sources converted to 1920 x 1080 resolution, while of high quality, will exhibit somewhat lower subjective image resolution than true, native 1080p Full-HD sources

MULTI-FORMAT PLAYBACK



Panasonic Blu-ray Players can play back a big variety of different formats from different types of media. Enjoy all different kinds of media and content in brilliant quality.

Media: BD-ROM, BD-RE (Dual Layer), BD-R (Dual Layer), DVD, DVD-RAM, DVD-R (DL), DVD-RW, +R (DL), +RW, CD, CD-R/-RW, SD Memory Card. Examples of formats*: AVCHD, JPEG, DivX®, MP3

* Playback depending on media



Blu-Ray Disc Player



New releases to replace the award winning DMP-BD50/30



DMP-BD55 available November 2008

BLU-RAY DISC PLAYER WITH SD MEMORY CARD SLOT

- PHL Reference Chroma Processor Plus
- P4HD (Pixel Precision Progressive Processing for HD)
- BD-Live and BONUSVIEW Compatible¹
- 7.1ch Lossless Decode and HDMI/Analogue Output
- Movie (AVCHD) & JPEG (HD) viewing by SD Memory Card Slot
- VIERA Link

Easy operation of your Blu-ray Disc Player with the Remote Control of your new Viera TV



DMP-BD35 available November 2008

BLU-RAY DISC PLAYER WITH SD MEMORY CARD SLOT

- PHL Reference Chroma Processor Plus
- P4HD (Pixel Precision Progressive Processing for HD)
- BD-Live and BONUSVIEW Compatible¹
- 7.1ch Lossless Decode and HDMI Output
- Movie (AVCHD) & JPEG (HD) viewing by SD Memory Card Slot
- VIERA Link

Easy operation of your Blu-ray Disc Player with the Remote Control of your new Viera TV



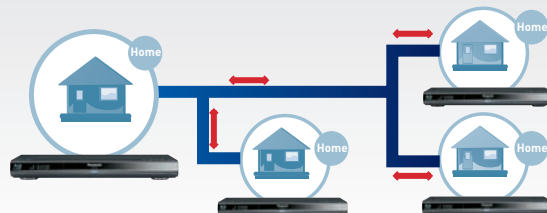
¹"BONUSVIEW" and "BD-Live" are trademarks of Blu-ray Disc Association

BD-LIVE



Download additional contents

The DMP-BD55 and DMP-BD35 will be able to connect directly to the Internet and download additional content from Websites to an SD Memory Card for new forms of enjoyment.



Sharing the information with other BD-Live users

In the future, BD-Live will allow users to join in quizzes and challenge each other to interactive games based on bonus movie content². Blu-ray Disc media will offer many new ways to have fun even after you have finished watching the movie.

²Actual functions vary depending on the Blu-ray Disc media.



The Chronicles of Narnia:
Prince Caspian
Available this Winter
on Hi-Def Blu-ray
Claim FREE with BD55/35.
Limited offer only, while stocks last.



©Disney



SC-BT100

BLU-RAY DISC HOME CINEMA SYSTEM

- 3.1 Channel Speaker System
- Premium Sound Quality
Bamboo Diaphragm Front and Centre Speakers
- Kelton Subwoofer
- Premium Picture Quality
PHL Reference Chroma Processor and P4HD (Pixel Precision Progressive Processing for HD)
- Premium Surround Technology
Dolby TrueHD-, Dolby Digital Plus-, DTS-HD Master Audio, DTS-HD High Resolution Audio and Linear PCM-Decoders
- Integrated Universal Dock
iPod® Music and Video Playback*

Additional features

High Definition Movie & Picture Playback via SDHC Memory Card Slot, VIERA Link: Easy operation of your Blu-ray Disc Home Cinema System with the remote control of your new VIERA TV. Wireless ready for rear speakers: expand by optional articles SH-FX67 and SB-HS100 to a wireless 5.1. or 7.1 channel system, Multi-Format Playback: BD Video (Bonus View), BD-R/RE (DL), DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, CD-R/RW, AVCHD, MP3, JPEG and DivX, 1080/24p Playback (Blu-ray Disc), Whisper-mode Surround

5.1/7.1CH WIRELESS EXPANSION KIT

SB-HS100A
Speaker System



SH-FX67

Wireless Kit
for Rear
Speakers



1,250W with 5.1ch System
1,500W with 7.1ch System
You can also create a true 5.1/7.1-channel surround sound system by separately purchasing an SH-FX67 for Wireless System and SB-HS100A for Surround Speakers.

Five Blu-ray titles available FREE!

Limited offer. For details see authorised dealer.



1080/24P PLAYBACK

The DMP-BD55, DMP-BD35 and SC-BT100 provide 1080/24p¹ output.

This reproduces movie images from a Blu-ray Disc in their original 24p form, with no need for conversion. You see movies in the same format² used in movie theatres.

Output in 24p as it is, reproducing images as close as possible to the original quality.



Data Source



DMP-BD55



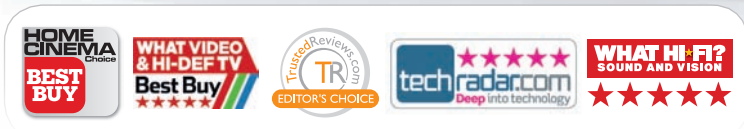
Projector
PT-AE3000



¹24p stands for 24 frames/sec. ²1080/24p supported display device is required



DIGA DVD Recorder



DMR-EX88: A synthesis of fascinating picture and sound quality with easy operation. It takes the possible usages of an HDD/DVD-Recorder to a new level.

EVERY SCENE MATTERS



This new Panasonic HDD/DVD-Recorder offers outstanding picture quality thanks to its trailblazing 1080p Up-Conversion capabilities and further advanced technologies.



Thanks to the VIERA Link function you can operate your HDD/DVD-Recorder with the remote control of your new VIERA TV.

You can also centrally store all your digital content on its HDD: TV recordings, camcorder recordings, digital still pictures or your music collection.

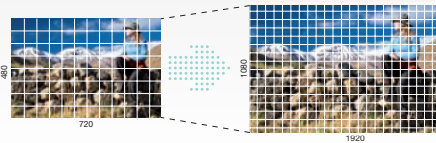


Due to our advanced graphic user interface and the use of technologies like the implementation of the gracenote® CD Database, all of this is easy to operate and you will quickly find the stored content you are looking for.

Fascinating Picture and Sound Quality

High Picture Quality

1080P UP-CONVERSION



HD 1920x1080p Ordinary TV broadcasts and DVD discs provide SD images with 576 x 640 pixels or 576 x 720 pixels. Today's newest HDTVs, on the other hand, can display images with 1080 x 1920 pixels. HDTVs require high-quality image sources suitable for their large screens. If the optimization process for high-quality images is inadequate, the picture can become blurry or grainy. DIGA's original i/p conversion and up-conversion functions solve this problem. These functions convert SD signals from DVD discs or DIGA's own hard disc drive into 1080p signals that provide high-resolution images. The conversion process boosts the amount of image information by about 5 times, so pictures are clear and beautiful.

INTELLIGENT I/P CONVERSION

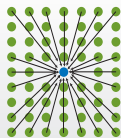
Conventional

Draws on 7 pixels of information to generate 1 pixel



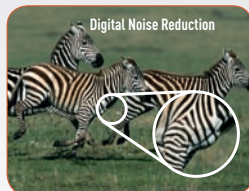
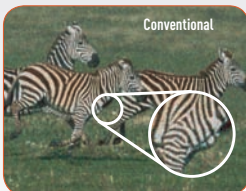
DIGA Progressive Processing

Draws on 60 pixels of information to generate 1 pixel



DIGA uses Precision Pixel Generation technology in combination with three advanced functions – Pixel-Based Motion Adaptive, Diagonal Processing, and 2:2 Detection and Processing – to apply the type of i/p conversion that best suits the image. Precise Pixel Generation is using a high-speed algorithm. This technology uses information obtained from 60 neighbouring pixels to generate a new pixel for an image area.

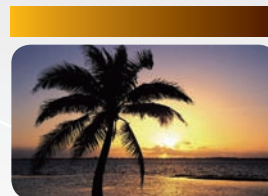
DVB-T ADAPTIVE NOISE REDUCTION



The DVB-T Adaptive Noise Reduction detects and removes the block noise that is unique to digital broadcasts. It helps deliver beautiful pictures with minimal noise.

DEEP COLOUR

12bit 4096 Gradation Steps



With 4,096 gradation steps, colours are smooth, natural-looking and beautifully articulated.

* The TV must also be Deep Colour compatible.
Other TVs will display 8-bit, 256-step gradation.

DIGA is Deep Colour ready, which means it can reproduce images with 12-bit, 4,096-step gradation. You enjoy exceptionally rich, natural-looking colours, with smooth, detailed gradation and minimal colour banding.

SUPER MULTI-FORMAT



All DIGA DVD recorders offer the ease and convenience of Super Multi-Format Recording and Playback, which lets users play all of their DVDs, regardless of the recording format. DIGA models can record and play back DVD-RAM, DVD-R¹², DVD-R DL¹²³, DVD-RW¹³, +R, +R DL³, +RW discs. So you don't have to worry about whether your DIGA can play back everything in your current video library or not.

¹ Recording is possible only in DVD-Video format.

² Including CPRM-compatible DVD-R.

³ Including CPRM-compatible DVD-RW.

DIGA

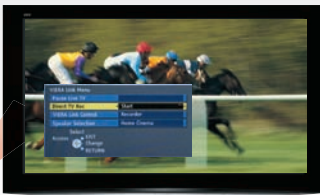
DIGA DVD RECORDER TECHNOLOGY



Easy Operation with Viera Link Enhancement

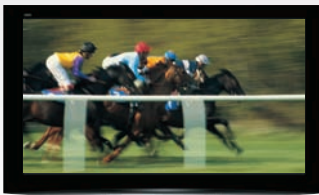
DIRECT TV REC.

While watching TV



All 2008 DIGA models

Record Instantly



If you want to record the programme you're watching, you can start immediately by pressing the VIERA Link button on the VIERA remote control and selecting „Direct TV Rec.“ on the VIERA Link menu screen. You can also start Direct TV Rec. by pressing the „Direct TV Rec.“ button on the VIERA remote.

* This function is available for Panasonic products that support VIERA Link (HDAVI Control 3).
* Specifications and connection methods vary depending on the country or region.

PAUSE LIVE TV

Pause Live TV with **VIERA Link**



When you are watching TV you suddenly have a visitor or a call

All HDD models

Pause Live TV lets you freeze TV programmes just like pausing a DVD, by selecting „Pause Live TV“ on the VIERA Link menu. The TV programme is temporarily saved on the hard disk drive so you can watch the rest of the programme, precisely from the stopped frame, at a later time.

* When 8 hours have passed since the programme was recorded, the image is deleted in successive 30-minute lengths

* This function is available for Panasonic products that support VIERA Link (HDAVI Control 3)

* Specifications and connection methods vary depending on the country or region



You can easily pause the Live TV programme with the VIERA Link



Additional Features

JUKEBOX WITH GRACENOTE® (CD DATABASE)

CD Database Update

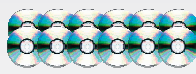
If the pre-installed CD database does not contain the latest album titles, you can download new title data onto your PC from the Internet. Then you can update the CD database by using a USB memory device to install the downloaded data into DIGA.



Update CD Database

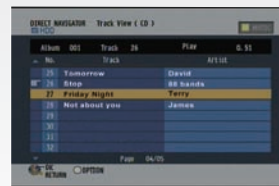
EX78/EX88/EX98

Easy Storing



A CD collection can be stored on the hard disk with Linear PCM.

Music Box with CD Data Base



* CD database of approx. 350,000 albums is pre-installed onto DIGA.

Data from music CDs and USB devices can easily be transferred to the DIGA hard disk drive. It supports gracenote®, so titles and artist names are automatically saved together with the music CD data. It also supports the ID3Tag title information that is embedded in MP3 music data. The new DIGA is like a jukebox filled with your favourite music.

HDD/SD CAMCORDER LINKING WITH USB TERMINAL

Simply connect a digital video camera (HDD model or SD Memory Card model) to the USB terminal of DMR-EX88 or DMR-EH68 and you can record MPEG2 Movie data from the camcorder onto the DIGA hard disk drive.



Record onto HDD



USB



Via USB Terminal

* Connection is possible with Panasonic camcorders (HDD models and SD Memory Card models).

EX88/EX98

DIGITAL CAMERA LINKING THROUGH USB TERMINAL & SD MEMORY CARD

Almost all DIGA models are equipped with an SD Memory Card or a USB terminal. This makes it easy to view photos from any digital camera that uses an SD Memory Card or that comes with a USB cable. Just slip the SD Memory Card into the card slot, or use the cable to connect the camera to the DIGA recorder USB terminal, and you're ready to enjoy a spectacular big-screen slide show with family or friends.

Linking with SD Memory Card & USB Terminal.



Via SD Memory Card



Via USB Terminal



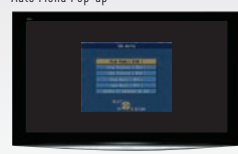
EX88/EX98

ENJOY MULTI FORMAT WITH USB TERMINAL

DIGA recorders can also play JPEG, MP3 and DivX® files stored on a USB device, and they can transfer JPEG, MP3 data onto hard disk drive.

EX78/EX88/EX98

Auto Menu Pop-up



Insert USB device into USB terminal

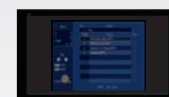


Select Functions

Playback & Store with USB terminal



Playback & Store JPEG Data



Playback & Store MP3 Data

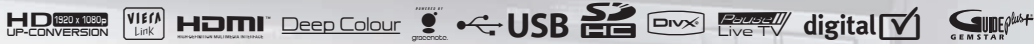


Playback DivX Data



USB

DVD Recorder



DMR-EX88

DIGA DVD RECORDER WITH 400 GB HDD AND FREEVIEW + **Freeview +**

- 400 GB Hard Disc
- Freeview + Tuner with Adaptive Noise Reduction
- Advanced 1080p Up-Conversion
- Music Jukebox with gracenote® (CD Database)
- Storage of Music from CD (LPCM) and USB (MP3)
- GUIDE Plus+ 8 Day Electronic Programme Guide

- Series Recording with Grouping View
- Pause Live TV
- Detects Program Schedule Changes
- Additional Features

Advanced VIERA Link: Easy operation of your DIGA with the remote control of your new VIERA TV, HDD/SD Camcorder Linking via USB Terminal, Integrated DVB-T Tuner, Deep Colour, MP3, JPEG and DivX Playback with USB Terminal, SD Memory Card Slot, Super Multi-Format Recording: HDD, DVD-RAM/ -RW/ -R (DL), +RW/ +R (DL), Super Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, MP3, JPEG and DivX, Grouping View for viewing the data on the hard disc



DMR-EX78

DIGA DVD RECORDER WITH 250 GB HDD AND FREEVIEW + **Freeview +**

- 250 GB Hard Disc
- Freeview + Tuner with Adaptive Noise Reduction
- Advanced 1080p Up-Conversion
- Music Jukebox with gracenote® (CD Database)
- Storage of Music from CD (LPCM) and USB (MP3)
- GUIDE Plus+ 8 Day Electronic Programme Guide
- Series Recording with Grouping View
- Pause Live TV
- Detects Program Schedule Changes
- Additional Features

Advanced VIERA Link: Easy operation of your DIGA with the remote control of your new VIERA TV, Integrated DVB-T Tuner, Deep Colour, MP3, JPEG and DivX Playback with USB Terminal, Super Multi-Format Recording: HDD, DVD-RAM/ -RW/ -R (DL), +RW/ +R (DL), Super Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, MP3, JPEG and DivX, Grouping View for viewing the data on the hard disc, 1 Second Quick Start Recording



DMR-EX768

DIGA DVD RECORDER WITH 160 GB HDD AND FREEVIEW + **Freeview +**

- 160 GB Hard Disc
- Freeview + Tuner with Adaptive Noise Reduction
- Advanced 1080p Up-Conversion
- Advanced VIERA Link
- GUIDE Plus+ 8 Day Electronic Programme Guide
- Series Recording with Grouping View
- Pause Live TV
- Detects Program Schedule Changes
- Additional Features

Integrated DVB-T Tuner, Deep Colour, Super Multi-Format Recording: HDD, DVD-RAM/ -RW/ -R (DL), +RW/ +R (DL), Super Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, MP3, JPEG and DivX, Grouping View for viewing the data on the hard disc, 1 Second Quick Start Recording, High Picture Quality in LP Mode: 2xLP Horizontal Resolution (500 lines)





DMR-EX98V

DIGA DVD-/VHS-RECORDER WITH 250 GB HDD AND FREEVIEW +

- 250 GB Hard Disc
- Integrated DVB-T Tuner
- Advanced 1080p Up-Conversion
- Super Multi-Format Recording
HDD, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL) and VHS
- GUIDE Plus+ 8 Day Electronic Programme Guide
- Series Recording
- Pause Live TV
- Detects Program Schedule Changes
- Additional Features

One-Touch 6-Way dubbing between DVD, HDD and VHS, Advanced VIERA Link: Easy operation of your DIGA with the remote control of your new VIERA TV, HDD/SD Camcorder Linking via USB Terminal, Integrated DVB-T Tuner, Deep Colour, MP3, JPEG and DivX Playback with USB Terminal, SD Memory Card Slot, Super Multi-Format Recording: HDD, DVD-RAM/ -RW/ -R (DL), +RW/ +R (DL), Super Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, MP3, JPEG and DivX, Grouping View for viewing the data on the hard disc, Series Recording (availability depending on country)



DMR-EH58EBL (For Ireland only) DIGA DVD RECORDER WITH 250 GB HDD

- 250 GB Hard Disc
- Advanced 1080p Up-Conversion
- Music Jukebox with gracenote® (CD Database)
- Advanced VIERA Link
Easy Operation of your DIGA with the Remote Control of your new VIERA TV
- MP3, JPEG and DivX® Playback with USB Terminal
- VHF Tuner
- VIDEO Plus+
- Additional Features

Deep Colour, Super Multi-Format Recording: HDD, DVD-RAM/ -RW/ -R (DL), +RW/ +R (DL), Super Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, MP3, JPEG and DivX, Grouping View for viewing the data on the hard disc, 1 Second Quick Start Recording, High Picture Quality in LP Mode: 2xLP Horizontal Resolution (500 Lines)



DMR-EZ48V

SUPER MULTI FORMAT COMBI RECORDER WITH FREEVIEW



- 2-in1 DVD & VHS Combi
- Full HD 1080P Up-Conversion
- Freeview Tuner and GUIDE Plus+: 8 Day Electronic Programme Guide
- Detection of Programme Schedule Changes
- HDMI with Viera Link
- Super Multi Format Record & Play ALL DVD Formats
- Super Easy Graphic User Interface
- Dual Layer Compatible
- 16x -R Compatible
- DV-in
- MP3, Jpeg from -R
- 500 Line LP Mode
- 1 Sec Quick Start & Record
- VHS to DVD Refresh Dubbing



DMR-EZ28 SUPER MULTI FORMAT RECORDER WITH FREEVIEW



- Full HD 1080P Up-Conversion
- Freeview Tuner and GUIDE Plus+: 8 Day Electronic Programme Guide
- Detection of Programme Schedule Changes
- HDMI* with Viera Link
- Super Multi Format - Record & Play ALL DVD Formats
- Super Easy Graphic User Interface
- Dual Layer Compatible
- 16x -R Compatible
- DV-in
- MP3, Jpeg from -R
- 500 Line LP Mode
- 1 Sec Quick Start & Record





DVD Player



DVD-S54 DVD PLAYER WITH 1080P UP-CONVERSION

- Multi-Format Playback
DVD-RAM, DVD-RW/-R (DL), +RW/+R (DL), SVCD, CD, WMA, MP3, JPEG, MPEG4 and DivX®
- VIERA Link
Easy Operation of your DVD-Player with the Remote Control of your new VIERA TV
- 1080p Up-Conversion
- Deep Colour
- Additional Features
HD Enhancer, Digital Noise Reduction (MPEG DNR), Advanced Progressive Scan (PAL / NTSC), Audio Re-Master Processing



DVD-S511 DVD PLAYER WITH HDMI

- Multi-Format Playback
DVD-RW/-R (DL), +RW/+R (DL), SVCD, CD, WMA, MP3, JPEG, MPEG4 and DivX®
- HDMI - High Definition Multimedia Interface
- 1080i Up-Conversion
- Advanced Progressive Scan (PAL / NTSC)
- Audio Re-Master Processing



DVD-S33 MULTI-FORMAT DVD PLAYER

- Multi-Format Playback
DVD-RW/-R (DL), +RW/+R (DL), SVCD, CD, HighMAT (Level 2), WMA, MP3, JPEG, MPEG4 and DivX®
- Advanced Progressive Scan (PAL / NTSC)
- 108MHz / 12bit Video D/A Converter
- Dolby Digital and dts out



Portable DVD Player



DVD-LS86

PORTABLE DVD PLAYER

- 8.5" Widescreen LCD
- Up to 13 hours Playback with Rechargeable Battery
- Safe and Easy in Car use
with included Headrest Mounting Bracket
- Passed DEKRA Security Test for In-Car Usage
- FM-Transmitter
- Additional Features

MonoArm for Flexible Viewing Angle, iPod™ Input (Audio/Video)*, Multi-Format Playback: DVD-RAM, DVD-RW/-R (DL), +RW/+R (DL), SVCD, CD, HighMAT (Level 2), WMA, MP3, JPEG, MPEG4 and DivX®, Aluminium disc cover, MPEG Digital Noise Reduction, Car DC Adaptor included, H.Bass, AV Input

iPod™ is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

DVD-LS83

PORTABLE DVD PLAYER

- 8.5" Widescreen LCD
- Up to 6 hours Playback with Rechargeable Battery
- Safe and Easy in Car use
with included Headrest Mounting Bracket
- Passed DEKRA Security Test for In-Car Usage
- Multi-Format Playback
DVD-RAM, DVD-RW/-R (DL), +RW, +R (DL), SVCD, CD
HighMAT (Level 2), WMA, MP3, JPEG
- Additional Features

MPEG Digital Noise Reduction, Car DC Adaptor included, H.Bass, AV Input, 108MHz/12bit Video D/A Converter



YOU CAN ALSO TRANSFORM YOUR CAR'S REAR SEAT AREA INTO A CINEMA IN THREE EASY STEPS

1 INSTALL THE CAR BRACKET



2 MOUNT THE DVD-LS86/LS83 INTO THE CAR BRACKET



3 AND YOUR REAR-SEAT THEATRE IS READY



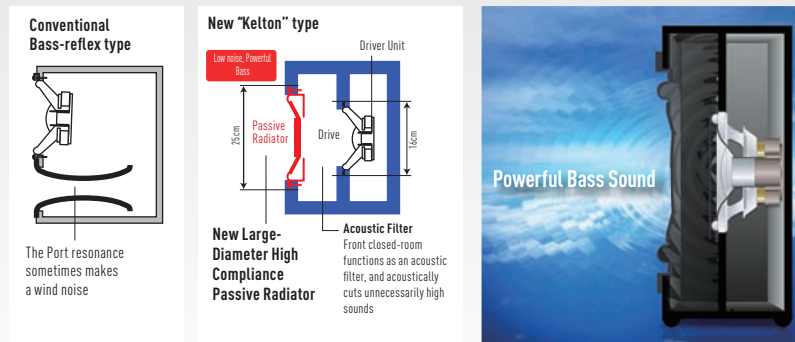
* The bracket cannot be mounted onto some seat types.

Multimedia Experience with Outstanding Sound

Premium Sound Quality

KELTON SUBWOOFER FOR POWERFUL BASS SOUND

Thanks to the Kelton subwoofer, the Home Cinema System outputs deep, thunderous bass sounds that make viewing Blu-ray Discs and DVDs a truly awesome entertainment experience. The Kelton subwoofer has two internal chambers. A drive unit mounted in the rear chamber vibrates the front chamber, causing a large, 25 cm Passive Radiator in the front chamber to vibrate and produce bass sounds. Because the front chamber functions as an acoustic filter, there is minimal unwanted noise. The thinness and high compliance of the Passive Radiator help achieve an extremely clean, powerful and responsive bass sound.



BAMBOO DIAPHRAGM SPEAKER FOR CLEAR DIALOGUE

Use of rigid, low-density bamboo in the woofer and tweeter cones of the centre and front speakers helps achieve a highly responsive sound. In the case of the centre speaker especially vocals are pure and clear, and dialogue is crisp and easy to understand.

	Bamboo	Paper
Sound Velocity (m/s)	2380	1900
Specific Gravity	0.37	0.40



Premium Picture Quality

1080P UP-CONVERSION



HD 1920x1080p UP-CONVERSION All new Panasonic DVD Home Theatre Systems with an HDMI connector feature a 1080p Up-Conversion function which converts standard definition images (720x576 pixels) from DVD sources into high definition (HD) images (1920x1080 pixels). These up-converted signals deliver the maximum performance of an HD-capable flat screen TV, providing vivid, sharp and exceptionally detailed high resolution images for you to enjoy.

Equipment with above features varies by model

Connectivity

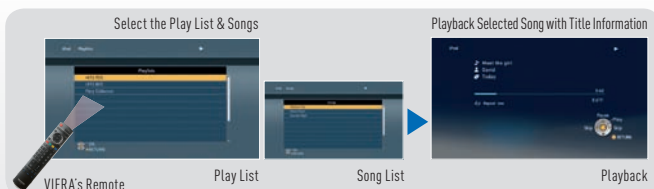
INTEGRATED UNIVERSAL DOCK FOR IPOD

Just slip your iPod into the built-in cradle and enjoy. With the Home Cinema System awesome picture and sound quality, you'll love listening to the music and watching the images on your iPod. There are no iPod or USB cables to connect, so it's super easy and your room stays tidy and uncluttered.



iPod not included

IPOD MUSIC/VIDEO CAPABILITY



Images based on SC-BT100 menu

IPOD MUSIC PLAYBACK AND ON-SCREEN DISPLAY

Panasonic's Home Cinema System is a great way to listen to the music on your iPod. The list of songs on your iPod can be displayed on the TV screen, and you can use the remote control from the Home Cinema System or a VIERA TV to select and play them.

IPOD VIDEO PLAYBACK

Use the iPod screen to select a video, then sit back and enjoy awesome large-screen viewing and thunderous surround sound*.

*To enjoy iPod Video contents, please use the composite cable to connect your home cinema system to your TV. iPod is a trademark of Apple Inc., registered in the U.S. and other countries.



Download Variety of Movie Contents

Playback

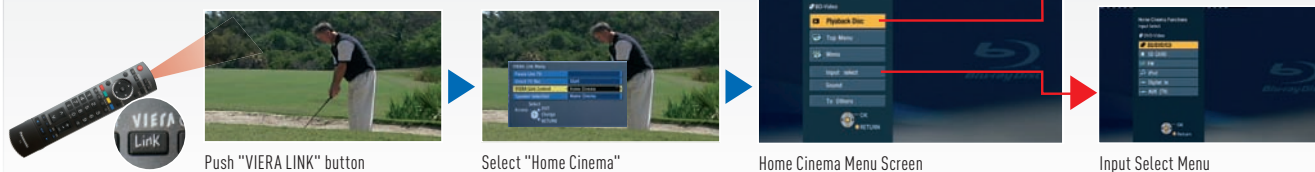
Easy Operation

NEW SEAMLESS GUI

Images based on SC-BT100 menu

As the types of media continue to increase, the VIERA Link capability continues to evolve. The newly enhanced VIERA Link* displays a menu on the TV screen, making it easier to operate the connected equipment. For example, you can display a menu with a list of the music stored on your iPod, and use the VIERA remote control unit to select one and begin playback.

* This function is available for those Panasonic products which support VIERA Link (HDAVI Control 3).



Push "VIERA LINK" button

Select "Home Cinema"

Home Cinema Menu Screen

Input Select Menu

Playback Movie

Easy Setup

AUTO THEATRE SETUP

When you connect your Home Cinema System to a VIERA TV via an HDMI cable, the TV settings (menu language, aspect ratio, and so on) are automatically loaded into the Home Cinema System. This saves you the trouble of choosing those settings manually.

3-WAY PLACEMENT TOWER SPEAKER (FLOOR/SHELF/WALL MOUNTING)

One of the advantages of flat panel HD TVs is their flexible installation. You can hang your flat panel TV on a wall of your choice, place it into your multimedia cabinet or shelving, or set it on special floor stands. To accommodate these possibilities, the SC-PT860, for example, features four 3-way placement tower speakers, and the SC-PT560 features two 3-way placement front tower speakers. Each of these speakers can be placed wherever you prefer, giving you the freedom to position each speaker in logical proximity of your TV and component racks.

Home Cinema Systems



• Additional Features

High Definition Movie & Picture Playback via SDHC Memory Card Slot, VIERA Link: Easy Operation of your Blu-ray Disc Home Cinema System with the Remote Control of your new VIERA TV, Wireless ready for rear Speakers: expand by optional Articles SH-FX67 and SB-HS100 to a wireless 5.1. or 7.1 Channel System, Multi-Format Playback: BD Video (Bonus View), BD-R/RE (DL), DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, CD-R/RW, AVCHD, MP3, JPEG and DivX, 1080/24p Playback (Blu-ray Disc), Whisper-mode Surround

SC-BT100

BLU-RAY DISC HOME CINEMA SYSTEM

- 3.1 Channel Speaker System
- Premium Sound Quality
with Bamboo Diaphragm Front and Centre Speakers
- Kelton Subwoofer
- Premium picture quality
PHL Reference Chroma Processor and P4HD (Pixel Precision Progressive Processing for HD)
- Premium Surround Technology
Dolby TrueHD-, Dolby Digital Plus-, DTS-HD Master Audio, DTS-HD High Resolution Audio and Linear PCM-Decoders
- Integrated Universal Dock
for iPod™ Music and Video Playback*

SC-PTX7

HDD MUSIC JUKEBOX HOME CINEMA SYSTEM

- Multi-Source HDD Jukebox for up to 39,000 Songs†
- CD, CD-R/RW Ripping to HDD
- MP3 and WMA File Transfer from PC to HDD via LAN
- 1080p Up-Conversion
- Wireless PC Link ready
with Optional Accessory (SH-FX570)
- iPod™ Playback and Recharge*
with Optional Accessory SH-PD10

• Additional Features

Music Shuffle, VIERA Link: Easy Operation of your Home Theatre with the Remote Control of your VIERA TV**, AUX/ Wireless AUX recording to HDD, Multi-Format Playback: DVD-Audio/ Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, CD-R/RW, HighMAT (Level 2), WMA, MP3, JPEG, MPEG4 and DivX, Twin Centre Speakers, Dolby Virtual Speaker



SC-PTX50

2.1 CHANNEL DVD HOME CINEMA SYSTEM

- Virtual Surround Sound with 2.1 Channel Speaker System
- Premium Sound Quality
with Bamboo Diaphragm Woofer and Tweeter
- Kelton Subwoofer
- 1080p Up-Conversion
- VIERA Link
Easy Operation of your Home Theatre with the Remote Control of your VIERA TV**
- iPod™ Playback and Recharge*
with optional Accessory SH-PD10



• Additional Features

Dolby Virtual Speaker, Multi-Format Playback: DVD-Audio/ Video, DVD-RAM, DVD-RW/ -R (DL), +RW/ +R (DL), CD, CD-R/RW, HighMAT (Level 2), WMA, MP3, JPEG, MPEG4 and DivX, Music Port: Easy Connection with Portable Audio Player, PAL/ NTSC Advanced Progressive Scan, Digital Amplifier, H.Bass for dynamic Bass Reproduction

* MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson multimedia. iPod™ is a trademark of Apple Computer, Inc., registered in the U.S. and other countries. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. Dolby and the double-D symbol are trademarks of Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. "DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc. x.v.Colour is a registered trademark. † 64kpbs AAC LP mode. †† This model has "Ver. HDAMI 2" Control (= .07 VIERA Link). So it has some differences regarding functions from .08 regular PT series. Not all VIERA Link features of this model are compatible with all 2008 VIERA Link Products

SC-PT860

5.1 CHANNEL DVD HOME CINEMA SYSTEM

- High Output Power: 1000W (RMS)
- 1080p Up-Conversion
- Bamboo Diaphragm Centre Speaker
- Kelton Subwoofer
- Integrated Universal Dock for iPod™ Music and Video Playback*
- VIERA Link

Easy Operation of your Home Cinema with the Remote Control of your VIERA TV

Additional Features

USB Terminal for MP3, WMA, JPEG, MPEG4 and DivX Playback, Auto Speaker Set-up, Digital Amplifier, Four 3-Way Placement Tower Speakers, Deep Colour, Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW, R (DL), CD, CD-R/RW, WMA, MP3, JPEG, Dolby Digital-, DTS-, Dolby ProLogic II-Decoders, Whisper-mode Surround



SC-PT560

5.1 CHANNEL DVD HOME CINEMA SYSTEM

- High Output Power: 1000W (RMS)
- 1080p Up-Conversion
- Kelton Subwoofer
- Bamboo Diaphragm Centre Speaker
- Integrated Universal Dock for iPod™ Music and Video Playback*
- VIERA Link

Easy Operation of your Home Cinema with the Remote Control of your VIERA TV

Additional Features

USB Terminal for MP3, WMA, JPEG, MPEG4 and DivX Playback, Digital Amplifier, Two 3-Way Placement Tower Speakers, Deep Colour, Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW, +R (DL), CD, CD-R/RW, WMA, MP3, JPEG, Dolby Digital-, DTS-, Dolby ProLogic II-Decoders, Whisper-mode Surround



SC-PT467

WIRELESS 5.1 CHANNEL DVD HOME CINEMA SYSTEM

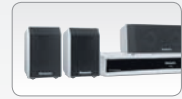
- High Output Power: 1000W (RMS)
- 1080p Up-Conversion
- Wireless Rear Speakers
- Bamboo Diaphragm Centre Speaker
- Integrated Universal Dock for iPod™ Music and Video Playback*
- VIERA Link

Easy Operation of your Home Cinema with the Remote Control of your VIERA TV

Additional Features

USB Terminal for MP3, WMA, JPEG, MPEG4 and DivX Playback, Digital Amplifier, Deep Colour, Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW, +R (DL), CD, CD-R/RW, WMA, MP3, JPEG, Dolby Digital-, DTS-, Dolby ProLogic II-Decoders, Whisper-mode Surround

Home Cinema



SC-PT460



5.1 CHANNEL DVD HOME CINEMA SYSTEM

- High Output Power: 1000W (RMS)
- 1080p Up-Conversion
- Bamboo Diaphragm Centre Speaker
- Integrated Universal Dock for iPod™ Music and Video Playback*
- USB Terminal for MP3, WMA, JPEG, MPEG4 and DivX® Playback
- VIERA Link
Easy Operation of your Home Cinema with the Remote Control of your VIERA TV

- Additional Features
Digital Amplifier, Deep Colour, Multi-Format Playback: DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW,+R (DL), CD, CD-R/RW, WMA, MP3, JPEG, Dolby Digital-, DTS-, Dolby ProLogic II-Decoders, Whisper-mode Surround

* iPod is a trademark of Apple Inc. registered in the U.S. and other countries.



SC-PT160

5.1 CHANNEL DVD HOME CINEMA SYSTEM

- Output Power: 330W (RMS)
- USB Terminal for MP3, WMA, JPEG, MPEG4 and DivX® Playback
- Multi-Format Playback:
DVD-Video, DVD-RAM, DVD-RW/ -R (DL), +RW,+R (DL), CD, CD-R/RW, WMA, MP3, JPEG, MPEG4 and DivX
- Dolby Digital-, DTS-,
Dolby ProLogic II-Decoders
- 108MHz/12-bit Video D/A Converter

SC-HTR310



HOME CINEMA TV STAND SYSTEM

- Dolby Virtual 3.1ch Surround System
- Built-in Speakers: 2 Front Speakers, 1 Centre Speaker, Subwoofer
- Premium Sound Quality with Bamboo Diaphragm Front and Centre Speakers
- VIERA Link
Easy Operation of your Home Cinema TV Stand System with the Remote Control of your VIERA TV
- Easy Installation
- Recommended for 50/42 Inch VIERA TV
- Whisper-mode Surround



SC-HTR310

SC-HTR210



HOME CINEMA TV STAND SYSTEM

- same as SC-HTR310 but recommended for 42/37 Inch VIERA TV



SC-HTR210



SA-BX500

AV CONTROL RECEIVER

- 7 x 150W (DIN, 6 ohms)
- 3 HDMI inputs for Full-HD 1080p Video Transmission
- Dolby Digital Plus, Dolby TrueHD and DTS-HD Master Audio Decoder
- Viera Link:
Gives you Streamlined Control of your Receiver, VIERA TV, Blu-ray Player and DVD Recorder/Player
- Auto Speaker Setup for Quick and Easy Setting
- Ready for up to 7.1ch with Optional Wireless Rear Speaker Kits
- iPod™ ready with Option port (SH-PD10)*

* iPod is a trademark of Apple Inc. registered in the U.S. and other countries.

** x.v.Colour is a trademark



SB-TP1000

HOME CINEMA SPEAKER SYSTEM

- Unique Twin Centre Speakers
to Reproduce the Dialogue from the Screen without a Separate Centre Speaker, regardless of the Listening Position
- Perfect Match for Large-Screen TVs
Twin Centre, Wall Mountable, Aluminium Cabinet
- High Sound Quality
8 cm PP Mica Graphite Midrange Woofer, 2.5 cm Titanium Super Sonic Tweeter, Double Motion Damper, Bi-Wiring
- Powerful Sound
Dual-Drive Subwoofer, Long-Stroke Woofer Decoder



SB-TP100 **DVD Audio Ready**

HOME CINEMA SPEAKER SET

- 3-Way 4-Speaker for Front and Rear, 3-Way 5-Speaker for Centre
- High 200W max Input Power (IEC)
- Designed to match Panasonic Viera Plasma
- Including Active Subwoofer with 100W (DIN)
- Wall Mountable and Height Adjustable





Hifi Systems

SC-PM86D

DVD MICRO HOME CINEMA WITH HDMI

- Output Power: 160W (RMS)
- High Picture Quality with 1080p Up-Conversion
- High Sound Quality and Clear Dialogues with PP Mica Woofer
- VIERA Link
- Easy operation of your DVD Micro Home Cinema with the remote control of your VIERA TV
- HDMI - High Definition Multimedia Interface



• Additional Features

USB Audio and Video Playback, iPod Playback and Recharge with optional accessory SH-PD10, Wireless PC Link Ready with optional accessory SH-FX570, Multi-Format Playback: DVD Video, CD, CD-R/RW, MP3, WMA, JPEG, DivX and MPEG4, Dolby Digital Decoder & DTS Digital Out, 2-way bass-reflex speaker system, Music Port: Easy Connection with Portable Audio Player, D.Bass



SC-PMX3DB

DAB HIGH PERFORMANCE MICRO HIFI SYSTEM WITH USB RIPPING

- Output Power: 160W (RMS)
- USB Recording from CD with max. 4 Times Speed
- High Quality Sound with PP Mica Woofer, Soft Dome Tweeter and Piezo Super Tweeter
- 3-way Bass-Reflex Speaker System

- iPod™ Playback and Recharge* with optional accessory SH-PD10

• Additional Features

Wireless PC Link Ready with optional accessory SH-FX570, USB & Music Port: Easy Connection with Portable Audio Player, Large Speaker Terminals, D.Bass



SC-PM46DB

DAB MICRO HIFI SYSTEM WITH OUTSTANDING SOUND QUALITY

- Output Power: 40W (RMS)
- 2-way Speaker System
- PP Mica Woofer for Clear Vocal
- USB & Music Port: Easy Connection with Portable Audio Player

- MASH 1-bit D/A conversion system

• Additional Features

Bass & Treble Control, Re-Master Function for improved sound quality of MP3 files from CD-R/RW, Feather-Touch Cassette Deck, Auto Power Off / Dimmer, Programmable Timer (PLAY/REC/SLEEP)



SC-PM4DB

DAB MICRO HIFI SYSTEM WITH MUSIC PORT

- Output Power: 20W (RMS)
- Music Port: Easy Connection with Portable Audio Player
- MP3 Playback with ID3 Tag Display

- Bass-Reflex System with 10cm Full Range Speaker

- RDS-Tuner

- MASH 1-bit D/A Conversion System

SC-PM4 Non DAB version also available

* iPod™ is a trademark of Apple Computer, Inc., registered in the U.S. and other countries. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. Dolby and the double-D symbol are trademarks of Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

SC-EN38DAB

DAB MICRO HI-FI SYSTEM WITH INTEGRATED UNIVERSAL DOCK FOR IPOD AND USB

- Integrated Universal Dock for iPod™
Music Playback, Recharge, PC Synchronisation
- USB Audio Playback
- Wireless PC Link Ready
with Optional Accessory SH-FX570
- Motorized CD Lid for Easy Disc Changing



Additional Features

MASH 1-bit D/A Conversion System, Slim Design, Re-Master Function for improved Sound Quality of MP3 files from CD-R/RW, D Bass, RDS Turner

SC-EN38 Non DAB version also available

iPod is a trademark of Apple Inc., registered in the U.S. and other countries



iPod not included



SC-AK770

CD MINI HI-FI SYSTEM WITH USB RECORDING FROM CD

- High Output Power: 700W (RMS)
- USB Recording from CD with Max. 4 Times Speed
- 2-Way 2-Speaker Bass-Reflex System
- 25cm External Subwoofer
- iPod™ Playback and Recharge
with Optional Accessory SH-PD10
- Additional Features
Wireless PC Link Ready with Optional Accessory SH-FX570, Music Port: Easy Connection with Portable Audio Player, 5-CD Changer with Play 1, Change 4 Mechanism, D.Bass for Heavy Bass Sound, Feather-Touch Casette Deck



SC-AK270

CD MINI HI-FI SYSTEM WITH D.BASS

- High Output Power: 250W (RMS)
- 2-Way 2-Speaker Bass-Reflex System
- 5-CD Changer with Play 1, Change 4 Mechanism
- D.Bass for Heavy Bass Sound
- USB & Music Port:
Easy Connection with Portable Audio Player
- Additional Features
MASH 1-bit D/A Conversion System, Feather-Touch Casette Deck, Preset Equaliser, Programmable Timer (Play/REC/SLEEP)

SH-PD10

UNIVERSAL DOCK FOR IPOD

- Universal Dock for iPod™
to connect with dedicated Panasonic HiFi Systems
- iPod™ Playback and Recharge
- Compatible with SC-PTX7, SC-PTX50, SC-PM86D, SC-PMX3, SC-AK770



iPod not included

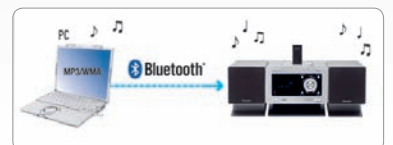


iPod is a trademark of Apple Inc., registered in the U.S. and other countries

SH-FX570

WIRELESS AUDIO SET

- Wireless Connection with PC for Music Playback
- Designed for Wide Compatibility
- Quality Sound Bluetooth Audio Profile
- Easy to Install
- Bluetooth Install Software Included
- Compatible with SC-PTX7, SC-PM86D, SC-PMX3, SC-EN38, SC-AK770



LUMIX

Digital Still Cameras

DMC-FX37



25mm LEICA DC VARIO-ELMARIT A Fantastic Wide Angle Lens

The 25mm wide angle lens reproduces perfectly width and depth when shooting landscapes and architecture, and is also ideal for shooting group portraits in small spaces. The new DMC-FX37 can even record motion pictures with sensational 1280x720 HD resolution at 30 frames per second. Connect the camera to an HD TV and enjoy still images and motion pictures in High Definition quality.







EVERY PICTURE MATTERS





Intelligent Auto Mode Technology A new Level of Intelligence

Not just Auto, intelligent Auto! Simply select iA Mode and you will discover how easy it is to take beautiful shots, any time, any place! The Intelligent Auto Mode Technology consists of six detection and correction systems that operate automatically in an instant.

-  Shake Detection with MEGA O.I.S.
No more blur caused by hand shake!
-  Motion Detection with Intelligent ISO Control
No more motion blur!
-  Face Detection AF/AE
No more out-of-focus portraits!
-  Intelligent Scene Detection
No more complicated settings!
-  Light Detection with Intelligent Exposure*
No more poor exposures!
-  Autofocus Tracking**
No more unfocused moving objects

*only available in FZ28, LX3, FX500, FX150, FX37

**only available in FZ28, LX3, FX500, FX150, FX37, FX35, T25

LUMIX DIGITAL STILL CAMERAS

LUMIX

A Perfect Match: Excellent Picture Quality and Easy Operation



25mm Wide Angle Shooting



LEICA DC VARIO ELMARIT LENS

Featuring 4 aspherical lenses with 6 aspherical surfaces, this lens system makes it possible to create a 25mm wide angle lens with a 5x optical zoom that is compact enough to fit into a slim camera body. This advanced lens allows capturing

images with a sense of spatial breadth and depth that is not possible with a 35mm lens.

High Optical Zoom



The LUMIX FZ and TZ series feature a LEICA lens with a remarkable optical zoom* not hindering the small, lightweight and easy-to-handle cameras. Panasonic's extra optical zoom function magnifies images providing you with an increase of the total zoom power and minimising deterioration.

*DMC-TZ5 10x / 28-280mm; DMC-TZ4 10x / 28-280mm, DMC-FZ50 12x / 35-420mm, DMC-FZ28 18x / 27-486mm / DMC-FZ18 18x / 28-504mm, DMC-FZ8 12x / 36-332mm

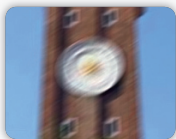


LEICA DC LENS

LEICA DC Lens – Using aspherical lenses virtually eliminates spherical aberration. The result are precise images rendering with minimal distortion, even with wide angle shots. Images captured with a LEICA DC lens are crisp and clear, also when enlarged to poster size.

INTELLIGENT AUTO MODE TECHNOLOGY

Say goodbye to complicated settings! Simply select iA Mode and you will discover how easy it is to take beautiful shots, any time, any place! The Intelligent Auto Mode Technology consists of six detection and correction systems that operate automatically and help to avoid shooting mistakes.



NO MORE BLUR CAUSED BY HAND SHAKE

Gyrosensors detect hand shake and the **Mega O.I.S.** lens shifts to compensate these subtle movements, preventing hand shake blurring. This system is completely optical – it does not affect the CCD or image processing.



NO MORE MOTION BLUR

Thanks to **Intelligent ISO Control**, the camera can determine whether a subject is moving or not and changes the ISO sensitivity and shutter speed accordingly. The results are clear, beautiful shots with no motion blur.



NO MORE OUT-OF-FOCUS PORTRAITS!

The **Face Detection** function detects faces anywhere in the frame and automatically chooses the optimal focus and exposure. It detects up to 15 faces in a photo and automatically readjusts the settings if their positions change.



NO MORE COMPLICATED SETTINGS

The **Intelligent Scene Selector** senses the ambient conditions and automatically selects image settings like scenery, portrait, macro, night portrait or night scenery accordingly, so you are assured of getting superb results every time you shoot, no matter which scene or subject.



NO MORE POOR EXPOSURES

Intelligent exposure instantly analyses the framed image and adjusts the brightness in areas that are too dark due to dim lighting, back lighting or the use of flash. By adjusting the brightness of dark areas, this function produces natural and realistic images.



NO MORE UNFOCUSED MOVING SUBJECTS

Once you focus on your subject, **AF Tracking** automatically tracks it until you press the shutter. When you're taking pictures of an active subject, this function eliminates the need to press the shutter button halfway down repeatedly to readjust the focus.

LUMIX Line up

STYLISH AND COMPACT SERIES



DMC-FX500



DMC-FX150



DMC-FX37



DMC-FS5



DMC-FS20



DMC-FS3

These slim and elegant cameras are packed with great features and incorporate a high quality Leica lens, offering Wide Angle and Optical

Zoom. Stylish and compact, these cameras are easy to transport, making them suitable for any occasion.

ACTIVE ZOOM AND STANDARD SERIES



DMC-LZ10



DMC-LZ8



DMC-LS80

Equipped with Intelligent Auto Mode Technology, including optical image stabilisation (O.I.S.), ISO Control, Face Detection and Scene

Selection, these cameras are able to take great pictures in a variety of challenging situations.



TRAVELLER SERIES



DMC-TZ5

The Lumix TZ5 unites two different requirements – a compact and handy design on the one hand, and photographic diversity with a 10x Optical Zoom and 28mm Wide Angle Lens on the other. With the TZ5

you can shoot sweeping landscapes or fit all your friends in a single photo even when there isn't much room. Utilising the fantastic zoom range of 28-280mm allows you to get up close and personal.

SUPER ZOOM SERIES



DMC-FZ28

These models feature great Leica DC Vario-Elmarit lenses with a 12x up to 18x Optical Zoom and an Extra Optical Zoom function, which boosts maximum zoom power to around 32.1x in the FZ28. You can pull in high mountain tops or capture even the most subtle facial expression from far away. The FZ series offers you a fully manual and intuitive operation, allowing you to realize all your creative ideas.

CREATIVE AND COMPACT



DMC-LX3

The LX3 with its incredible picture quality provided by a well known Leica lens together with a 10.2 Megapixel CCD sensor for multi format shooting, is one of our all time favourites. You can take impressive wide screen shots, which are enhanced by the distinct wide angle characteristics of the Leica DC Vario-Summiconr lens. Furthermore, you can choose the manual mode to shoot the most individual and creative pictures.

MICRO FOUR THIRDS



DMC-G1

The Lumix G Micro system will change the way you enjoy digital photography. Through its collection of features it can put enormous photographic power in the palm of your hand in an easy to use format. The Micro Four Thirds System stands for high quality and ease of use. Full time Live View and iA mode are just two examples of its technologies that allow you to capture the perfect shot!

D-SLR



DMC-L10

With the Lumix Digital-SLR you can tune your system to fulfil any creative ideas. The Four Third System is offering a wide range of lenses. Lumix Digital-SLR combines flexibility and upgradeability with the ease-of use of compact digital cameras. Thanks to the full-time Live View you can enjoy perfect picture control on the free-angle LCD.



The Travellers

DMC-TZ5

9.1 MEGA PIXEL / 10x OPTICAL ZOOM / 28mm WIDE ANGLE

- Advanced Intelligent Auto Mode Technology
- 28mm Wide Angle Lens
- 10x Optical Zoom
equiv. 35mm: 28-280mm
- LEICA DC VARIO-ELMAR Lens
F3.3 - 4.9
- 3.0" TFT Intelligent LCD Display (460k dots)
with Auto-Brightness Control
- Additional Features

HD motion picture recording (720p) with 30fps and HD Output, Optical Zoom in Motion Picture, ISO1600 at full resolution, approx. 50MB internal memory, High-speed Burst Mode: approx. 6 frames/sec*, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation, Intelligent Exposure Corrects Lighting Differences

* recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9



LUMIX



LEICA
DC VARIO-ELMAR



• Optional Accessories

CGA-S007E/1B
BATTERY PACK

DMW-MCTZ5E
MARINE CASE

DMW-AC5E
AC ADAPTOR

DMW-HDC2E
COMPONENT CABLE

DMWD-CTZK
LEATHER CASE

DMW-CHTZ3E
CARRYING CASE



• Optional Media



Super Zoom + Compact

DMC-FZ28

10.1 MEGAPIXEL SUPER ZOOM DIGITAL CAMERA

- Intelligent Auto Mode with AF Tracking
- 27mm Wide Angle Lens F2.8 - 4.4
- 18x Optical Zoom equiv. 35mm: 27-486mm
- Full Manual Operation
- HD Motion Images and HD Output



LUMIX LEICA DC VARIO-ELMARIT HD PHOTO (1520 x 1080) 27mm WIDE



- LEICA DC VARIO-ELMAR Lens
- Additional Features

2.5" Power LCD, Face Detection, Viewfinder (188K dots), Manual programmes (P/A/S/M) and manual focus via joystick, Intelligent ISO Control: detects subject movement automatically and reduces blur, 27MB internal memory, 3 frames per second burst shooting, ISO 1250 at full resolution

• Optional Accessories

CGR-S006E/1B BATTERY PACK	DMW-LC55E*† CLOSE-UP LENS (Focal length: 500 mm)	DMW-LMC46E MC PROTECTOR	DMW-LPL46E PL FILTER	DMW-AC7E AC ADAPTOR	DMW-CZ18E CARRYING CASE
DMW-LT55E (1.7)* TELE-CONVERSION LENS	DMW-LA3E LENS ADAPTOR	DMW-LND46E ND FILTER	DMW-HDC2E COMPONENT CABLE	DMW-CZ57E SOFT CASE	

• Optional Media



* Use of the lens adaptor is required † Zoom range is restricted to a magnification of 2x to 18x.



DMC-LX3

BRIGHT 24mm WIDE ANGLE LEICA LENS & HIGH SENSITIVITY CCD FOR STUNNING IMAGE QUALITY

- Intelligent Auto Mode Technology with AF Tracking
- 24mm Wide Angle LEICA DC VARIO-SUMMICRON Lens F2.0 - 2.8; equiv. 35mm: 24-60mm
- High-Sensitivity 1/1.63-inch CCD with 10.1 Megapixels
- Full Manual Operation



LUMIX LEICA DC VARIO-SUMMICRON HD PHOTO (1520 x 1080) 24mm WIDE



- HD Motion Images and HD Output
- 3.0" (460k dot) Intelligent LCD 3:2 Ratio
- Additional Features

HD motion picture recording (720p) with 30fps and HD Output, Optical Zoom in Motion Picture, ISO1600 at full resolution, approx. 50MB internal memory, High-speed Burst Mode: approx. 6 frames/sec*, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation, Intelligent Exposure Corrects Lighting Differences

• Optional Accessories

CGA-S005E/1B BATTERY PACK	DMW-FL500E EXTERNAL FLASH	DMW-HDC2E COMPONENT CABLE	DMW-CLX3E-K CAMERA CASE	DMW-LA4E LENS ADAPTOR	DMW-LND46E ND FILTER	DMW-LMC46E MC PROTECTOR
DMW-AC5E AC ADAPTOR	DMW-FL360E EXTERNAL FLASH	DMW-VF1E EXTERNAL OPTICAL VIEWFINDER	DMW-CZ18E SYSTEM CASE	DMW-LW46E WIDE CONVERSION LENS	DMW-LPL46E PL FILTER	

• Optional Media



Stylish+Compact



LUMIX LEICA DC VARIO-ELMARIT **HD PHOTO** **25mm WIDE**

DMC-FX500

10.1 MEGA PIXEL / 25mm ULTRA WIDE ANGLE

- Advanced Intelligent Auto Mode Technology
- 25mm Ultra Wide-Angle Lens
- 5x Optical Zoom equiv. 35mm: 25-125mm
- LEICA DC VARIO-ELMARIT Lens F2.8-5.9
- Operation via 3.0" TFT Touch-Panel LCD (230k dots) with Auto Brightness Control

Additional Features

HD motion picture recording (720p) with 30fps and HD Output, ISO1600 at full resolution, approx. 50MB internal memory, High-speed Burst Mode: approx. 6 frames/sec*, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation, Intelligent Exposure Corrects Lighting Differences.

* recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9



LUMIX LEICA DC VARIO-ELMARIT **HD PHOTO** **28mm WIDE**

DMC-FX150

14.7 MEGA PIXEL DIGITAL CAMERA / 28mm WIDE ANGLE

- Intelligent Auto Mode with AF Tracking
- 28mm Wide Angle Lens
- 3.6x Optical Zoom equiv. 35mm: 28-100mm
- LEICA DC VARIO-ELMARIT Lens F2.8-5.6
- 2.7" (230k dot) Intelligent LCD Wide Viewing Angle
- Additional Features
2.5" Power LCD, Short release time lag, High-speed Burst Mode: approx. 8 frames/sec*, Intelligent ISO control for automatic detection of subject movement

* recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9

Optional Accessories

- DMW-BCE10E BATTERY PACK
- DMW-AC5E AC ADAPTOR
- DMWD-CFX500-K LEATHER CASE
- DMW-HDC2E COMPONENT CABLE
- DMW-CHT23E CARRYING CASE

Optional Media



Optional Accessories

- CGA-S005E/1B BATTERY PACK
- DMW-AC5E AC ADAPTOR
- DMW-HDC2E COMPONENT CABLE
- DMW-CHFX30E CARRYING CASE

Optional Media



DMC-FX37

10.1 MEGA PIXEL / 25mm ULTRA WIDE ANGLE

- Intelligent Auto Mode with AF Tracking
- 25mm Wide Angle Lens
- 5x Optical Zoom equiv. 35mm: 25-125mm
- LEICA DC VARIO-ELMARIT Lens F2.8-5.9
- 2.5" (230k dot) Intelligent LCD Wide Viewing Angle

Additional Features

HD motion picture recording (720p) with 30fps and HD Output, ISO1600 at full resolution, approx. 50MB internal memory, High-speed Burst Mode: approx. 6 frames/sec*, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation, Intelligent Exposure Corrects Lighting Differences

* recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9



LUMIX LEICA DC VARIO-ELMARIT **HD PHOTO** **25mm WIDE**

Optional Accessories

- DMW-BCE10E BATTERY PACK
- DMW-AC5E AC ADAPTOR
- DMW-HDC2E COMPONENT CABLE
- DMW-MCFX35E MARINE CASE
- DMWD-CFS20-K LEATHER CASE
- DMW-CHFX30E CARRYING CASE

Optional Media





DMC-FS20

10.1 MEGAPIXEL / 30mm WIDE ANGLE

- Intelligent Auto Mode Technology
- 30 mm Wide Angle Lens
- 4x Optical Zoom
equiv. 35mm: 30-120mm
- LEICA DC VARIO-ELMAR Lens
F3.3-5.8
- 3.0" TFT Intelligent LCD Display (230k dots)
with Auto-Brightness Control
- Additional Features



Sharp WVGA video recording with high sensitivity (30 fps), approx. 50MB internal memory, High-speed Burst Mode: approx. 6 frames/sec**, ISO1600 at full resolution, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation

** recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9



• Optional Accessories

DMW-BCE10E
BATTERY PACK

DMW-AC5E
AC ADAPTOR

DMWD-CFS20-K
LEATHER CASE

DMW-CHF30E
CARRYING CASE

• Optional Media



DMC-FS5

10.1 MEGAPIXEL / 30mm WIDE ANGLE

- Intelligent Auto Mode Technology
- 30 mm Wide Angle Lens
- 4x Optical Zoom equiv. 35mm: 30-120mm
- LEICA DC VARIO-ELMAR Lens F3.3-5.8
- 2.5" TFT Intelligent LCD Display (230k dots)
with Auto-Brightness Control
- Additional Features



Sharp WVGA video recording with high sensitivity (30 fps), approx. 50MB internal memory, High-speed Burst Mode: approx. 6 frames/sec**, ISO1600 at full resolution, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation

** recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9

• Optional Accessories

DMW-BCE10E
BATTERY PACK

DMW-AC5E
AC ADAPTOR

DMW-MCF5E
MARINE CASE

DMWD-CFS20-K
LEATHER CASE

DMW-CHF30E
CARRYING CASE



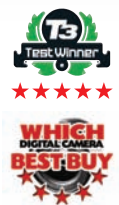
• Optional Media



DMC-FS3

8.1 MEGAPIXEL

- Intelligent Auto Mode Technology
- 33mm LEICA DC VARIO-ELMARIT Lens
F2.8-5.1
- 3x Optical Zoom equiv. 35mm: 33-100mm
- 2.5" TFT Intelligent LCD Display (230k dots)
with Auto-Brightness Control
- Venus Engine IV up to ISO1600 at Full Resolution
- Additional Features



Sharp WVGA video recording with high sensitivity (30 fps), approx. 50MB internal memory, High-speed Burst Mode: approx. 7 frames/sec*, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation

* recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9

• Optional Accessories

DMW-BCE10E
BATTERY PACK

DMW-AC5E
AC ADAPTOR

DMW-MCF5E
MARINE CASE

DMWD-CFS20-K
LEATHER CASE

DMW-CHF30E
CARRYING CASE



• Optional Media

Active Zoom & Standard



DMC-LZ10

10.1 MEGA PIXEL / 30mm WIDE ANGLE

- Intelligent Auto Mode Technology
- 30mm Wide Angle Lens
- 5x Optical Zoom
equiv. 35mm: 30-150mm
- LEICA DC VARIO-ELMAR Lens
F3.3-5.9
- 2.5" TFT Intelligent LCD Display (230k dots)
with Auto-Brightness Control
- Additional Features



Sharp WVGA video recording with high sensitivity (30 fps), approx. 20MB internal memory, High-speed Burst Mode: approx. 5 frames/sec*, ISO1600 at full resolution, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation, PASM/Manual Control

* recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9



LUMIX



LEICA
DC VARIO-ELMAR



• Optional Accessories

- DMW-AC6E
AC ADAPTOR
- DMW-CLZ10E
CARRYING CASE
- DMW-DCC2E*
DC COUPLER
- DMW-CHTZ3E
CARRYING CASE

* Use of the AC adaptor (DMW-AC6) is required.

• Optional Media



LUMIX



LEICA
DC VARIO-ELMAR



DMC-LZ8

8.1 MEGA PIXEL



- Intelligent Auto Mode Technology
- 32mm LEICA DC VARIO-ELMAR Lens F3.3-5.9
- 5x Optical Zoom equiv. 35mm: 32-160mm
- 2.5" Intelligent LCD Display (230k dots)
with Auto-Brightness Control
- Venus Engine IV up to ISO1600 at Full Resolution
- Additional Features

Sharp WVGA video recording with high sensitivity (30 fps), approx. 20MB internal memory, High-speed Burst Mode: approx. 5.5 frames/sec*, Venus Engine IV, MEGA O.I.S. Helps Prevent Blurring from Hand-Shake, Intelligent ISO Control Helps Prevent Motion Blur, Face Detection Produces Clear Portraits, Intelligent Scene Selector Chooses the Mode that Best Fits the Situation, PASM/Manual Control

* recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9



LUMIX



LEICA
DC VARIO-ELMAR



DMC-LS80

8.1 MEGA PIXEL

- Mega O.I.S. Helps Prevent Blurring from Hand-Shake
- 33mm LEICA DC VARIO-ELMAR Lens F2.8-5.1
- 3x Optical Zoom equiv. 35mm: 33-100mm
- 2.5" TFT Intelligent LCD Display (230k dots)
with Auto-Brightness Control
- Venus Engine III up to ISO1600 at Full Resolution
- Additional Features

Approx. 24MB internal memory, High-speed Burst Mode: approx. 5.5 frames/sec*, Venus Engine III, Intelligent ISO Control Helps Prevent Motion Blur

* recorded in 2M for 4:3, 2.5M for 3:2, 2M for 16:9

• Optional Accessories

- DMW-AC6E
AC ADAPTOR
- DMW-CLZ10E
CARRYING CASE
- DMW-DCC2E*
DC COUPLER
- DMW-CHTZ3E
CARRYING CASE

* Use of the AC adaptor (DMW-AC6) is required.

• Optional Media



• Optional Accessories

- DMW-AC6E
AC ADAPTOR
- DMW-CLZ10E
CARRYING CASE
- DMW-DCC2E*
DC COUPLER
- DMW-CHTZ3E
CARRYING CASE

* Use of the AC adaptor (DMW-AC6) is required.

• Optional Media



LEICA is a registered trademark of Leica Microsystems (R) GmbH. Leica lenses are manufactured using measurement instruments and quality assurance systems that have been certified by Leica Camera AG based on the company's quality standards.

D-SLR



DMC-L10

DIGITAL 10.1 MEGAPIXEL SLR CAMERA

- 4/3" 10.1 Pixel LIVE MOS Sensor
- Full-Time Live View Function
- 2.5" Free-Angle LCD (207k dots)
- Face Detection, AF and AE
- Four Thirds Mount
- Additional Features

Supersonic Wave Filter for dust reduction, Shutter speed: bulb, 60-1/4000 sec, Venus Engine III LSI image processor, ISO setting up to 1600 and Intelligent ISO control, 3fps burst rate, continuous shooting up to memory card capacity, Hot shoe, TTL auto for Panasonic flashes DMW-FL360 and DMW-FL500, JPEG and RAW format recording, SD memory card slot, USB 2.0 Hi-Speed, Incl. Leica D Lens 14-50mm (28-100mm equiv.)/F3.8-5.6 with Mega O.I.S.



• Optional Accessories

DMW-BLA13E
BATTERY PACK

DMW-FL500E (GN50)
DMW-FL360E (GN36)
EXTERNAL FLASH

DMW-RSL1E
REMOTE SHUTTER

DMW-BAL1E
LEATHER BAG

DMW-LMCH62E
DMW-LMCH67E
DMW-LMCH72E
MC PROTECTOR

DMW-LND62E
DMW-LND67E
DMW-LND72E
ND FILTER

DMW-LPL62
DMW-LPL67
DMW-LPL72
PL FILTER



• Optional Media



L-RS014150

LEICA D VARIO-ELMAR
14-150mm F3.5-5.6
ASPH MEGA O.I.S.

- 14-150mm Focal length
35mm equiv.: 28-300mm
- O.I.S. Optical Image Stabiliser
- FourThirds Standard Metal Mount
- Additional Features

Contrast AF support, Manual aperture ring for easy handling, Supersonic wave motor, Lens construction: 15 elements in 11 groups (4 aspherical lenses, 1 ED lens), Closest focusing distance: 0.5m, Maximum image magnification: 0.36x (35mm equiv.), Filter size: 72mm, Dimensions: 78.5 x 90.4mm, Weight: 520g



L-RS014050

LEICA D VARIO-ELMAR
14-50mm F3.8-5.6
ASPH MEGA O.I.S.

- 14-50mm Focal length
35mm equiv.: 28-100mm
- O.I.S. Optical Image Stabiliser
- FourThirds Standard Metal Mount
- Additional Features

Contrast AF support, Lens construction: 15 elements in 11 groups (2 aspherical lenses, 2 ED lenses), Closest focusing distance: 0.29m, Maximum image magnification: 0.42x (35mm equiv.), Filter size: 67mm, Dimensions: 74 x 93mm, Weight: 434g



L-ES014050

LEICA D VARIO-ELMARIT
14-50mm F2.8-3.5
ASPH MEGA O.I.S.

- 14-50mm Focal length
35mm equiv.: 28-100mm
- O.I.S. Optical Image Stabiliser
- FourThirds Standard Metal Mount
- Additional Features

Manual aperture ring for easy handling, Lens construction: 16 elements in 12 groups (2 aspherical lenses), Closest focusing distance: 0.29m, Maximum image magnification: 0.32x (35mm equiv.), Filter size: 72mm, Dimensions: 78.1 x 102.8mm, Weight: 490g



L-X025

LEICA D SUMMILUX
25mm F1.4 ASPH

- Fixed Focus: 25mm
35mm equiv.: 50mm
- F1.4 Bright Lens
- FourThirds Standard Metal Mount
- Manual Aperture Ring
for Easy Handling
- Additional Features

Lens construction: 10 elements in 9 groups (1 aspherical lens, 3 ED lenses, 1 super ED lens), Closest focusing distance: 0.18x (35mm equiv.), Filter size: 62mm, Dimensions: 77.7 x 75mm, Weight: 510g



DMC-G1

DIGITAL 12.1 MEGA PIXEL
ULTRA-COMPACT
DIGITAL SYSTEM CAMERA

- 4/3" 12.1 Megapixel LIVE MOS Sensor
- Full-Time Live View Function
- Interchangeable Lens System
- 3" Free-Angle LCD (460k dots)
- Face Detection, AF and AE
- Micro Four Thirds Mount
- Additional Features

Supersonic Wave Filter for dust reduction, Shutter speed: bulb, 60-1/4000 sec, Venus Engine HD LSI image processor, ISO setting up to 3200 and Intelligent ISO control, 3fps burst rate, continuous shooting up to memory card capacity, Hot shoe, TTL auto for Panasonic flashes DMW-FL220, DMW-FL360 and DMW-FL500, JPEG and RAW format recording, SD memory card slot, USB 2.0 Hi-Speed, Incl. Lumix G VARIO Lens 14-45mm (28-90mm equiv.)/F3.8-5.6 with Mega O.I.S.

LUMIX



H-FS014045

LUMIX G VARIO 14-45mm
F3.5-5.6 ASPH MEGA O.I.S.

- 14-45mm Focal length 35mm equiv.: 28-90mm
- O.I.S. Optical Image Stabiliser
- Micro Four Thirds Standard Metal Mount
- Additional Features

Contrast AF support, Manual aperture ring for easy handling, Supersonic wave motor, Lens construction: 15 elements in 11 groups (4 aspherical lenses, 1 ED lens), Closest focusing distance: 0.5m, Maximum image magnification: 0.36x (35mm equiv.), Filter size: 72mm, Dimensions: 78.5 x 90.4mm, Weight: 520g



H-FS045200

LUMIX G VARIO 45-200mm
F4-5.6 ASPH MEGA O.I.S.

- 45-200mm Focal length 35mm equiv.: 90-400mm
- O.I.S. Optical Image Stabiliser
- Micro Four Thirds Standard Metal Mount
- Additional Features

Contrast AF support, Manual aperture ring for easy handling, Supersonic wave motor, Lens construction: 15 elements in 11 groups (4 aspherical lenses, 1 ED lens), Closest focusing distance: 0.5m, Maximum image magnification: 0.36x (35mm equiv.), Filter size: 72mm, Dimensions: 78.5 x 90.4mm, Weight: 520g

D-SLR Reinvented



ACCESSORIES THAT GIVE YOU MORE WAYS TO ENJOY THE LUMIX G MICRO SYSTEM

External Flash DMW-FL220* DMW-FL360 DMW-FL500 			PL Filter DMW-LPL52 	MC Protector DMW-LMC 52 	ND Filter DMW-LND 52 	Mount Adapter DMW-MA1 											
Battery Pack DMW-BLB13** 			DC Cable DMW-DCC3 	Carrying Case DMW-CG1 	Carrying Bag DMW-BAG1 	Shoulder Strap (Stylish) DMW-SSTG1-A (Blue) DMW-SSTG1-C (Beige) DMW-SSTG1-R (Red) 	Shoulder Strap (Woven) DMW-SSTG2-W (White) 										
Shoulder Strap (Leather) DMW-SSTG3-T (Brown) 	HDMI mini Cable RP-CDHM15 RP-CDHM30 	Remote Shutter DMW-RSL1 	SD / SDHC Memory Card <table border="0"> <thead> <tr> <th>Pro High Speed</th> <th>High Speed</th> <th rowspan="6"> </th> </tr> </thead> <tbody> <tr> <td>32 GB*: RP-SDV32G</td> <td>12 GB*: RP-SDM12G</td> </tr> <tr> <td>16 GB*: RP-SDV16G</td> <td>6 GB*: RP-SDM06G</td> </tr> <tr> <td>8 GB*: RP-SDV08G</td> <td>4 GB*: RP-SDM04G</td> </tr> <tr> <td>4 GB*: RP-SDV04G</td> <td>2 GB*: RP-SDM02G</td> </tr> <tr> <td>2 GB*: RP-SDV02G</td> <td>1 GB*: RP-SDR01G</td> </tr> </tbody> </table> <p>*1 GB = 1 billion bytes. Usable capacity will be less.</p>		Pro High Speed	High Speed		32 GB*: RP-SDV32G	12 GB*: RP-SDM12G	16 GB*: RP-SDV16G	6 GB*: RP-SDM06G	8 GB*: RP-SDV08G	4 GB*: RP-SDM04G	4 GB*: RP-SDV04G	2 GB*: RP-SDM02G	2 GB*: RP-SDV02G	1 GB*: RP-SDR01G
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2 GB*: RP-SDV02G	1 GB*: RP-SDR01G																

**The DMW-BLB13 comes with a function to check whether the battery and unit can be safely used together. • Batteries made by other companies which have been certified by Panasonic may be used with these units, but we offer no guarantee as to the quality, performance or safety of such batteries. • Exercise care when purchasing batteries. Many fake or imitation batteries have been found among those sold at unusually low prices and those which customers cannot check for themselves before purchasing. • Please confirm the latest information about batteries on the following website. <http://panasonic.co.jp/pavc/global/cs/info/battery.html> (This website is in English only.)



Photo Printer



KX-PX30

MINI PHOTO PRINTER WITH 3.6 INCH TFT DISPLAY

- Optimised for Lumix (Backlight/Red Eye Compensation)
- Movie Scene Print
- Photo Direct Printing with SD Memory Card/PictBridge
- Fast Printing Speed (52 sec*)
- Various Print Formats
Postcard Format (10x15 cm), 16:9 Format (10x18 cm, only with adapter)



KX-PX2

MINI PHOTO PRINTER

- Photo Direct Printing from PictBridge - without a PC
- 1.5" / 3.8 cm Colour LCD for Selecting Images
- SD Card Slot
- Fast Printing Speed (65 sec*)
- Compact Design
- Various Print Formats
Postcard Format (10x15 cm), 16:9 Format (10x18 cm, only with adapter)

PAPER FOR MINI PHOTO PRINTER

KX-PVMS108KX

ACCESSORY FOR MINI PHOTO PRINTER

- 108 postcard-sized sheets (10x15 cm)
- Including colour cartridge

KX-PVMS180KX

ACCESSORY FOR MINI PHOTO PRINTER

- 180 postcard-sized sheets (10x15 cm)
- Including colour cartridge

KX-PVMS36KX

ACCESSORY FOR MINI PHOTO PRINTER

- 36 postcard-sized sheets (10x15 cm)
- Including colour cartridge

KX-PVMS20WX

ACCESSORY FOR MINI PHOTO PRINTER

- 20 16:9 format sheets (10x18 cm)
- Including colour cartridge

Accessories

LENSES AND LENS ADAPTOR



DMW-LW55 (0.7)
WIDE CONVERSION LENS
For FZ8*/FZ50



DMW-LT55 (1.7)
TELE-CONVERSION LENS
For FZ18*/FZ8*/FZ50



DMW-LC55
CLOSE-UP LENS
Focal Length 500mm



DMW-LA2/3/4
LENS ADAPTOR
For FZ8/FZ18/LX3

* Use of the lens adaptor is required

EXTERNAL FLASH



DMW-FL500 (GN50)
For FZ50/D-SLR



DMW-FL360 (GN36)
For FZ50/D-SLR

FILTERS AND PROTECTORS



MC PROTECTOR
DMW-LMC46 for FZ18
DMW-LMC52 for FZ8
DMW-LMC55 for FZ8*/FZ50
DMW-LMCH62 for D-SLR
DMW-LMCH67 for D-SLR
DMW-LMCH72 for D-SLR



ND FILTER
DMW-LND46 for FZ18
DMW-LND55 for FZ8*/FZ50
DMW-LND52 for FZ8
DMW-LND62 for D-SLR
DMW-LND67 for D-SLR
DMW-LND72 for D-SLR



PL FILTER
DMW-LPL62 for D-SLR
DMW-LPL67 for D-SLR
DMW-LPL72 for D-SLR

* Use of the lens adaptor is required

SD-MEMORY CARD



1GB = 1 Billion bytes.
1MB = 1 million bytes.
Usable capacity
will be less.

RP-SDR01:	1GB
RP-SDM02:	2GB
RP-SDM02(TWIN):	2GB
RP-SDV02:	2GB
RP-SDM04:	4GB
RP-SDV04:	4GB
RP-SDM06:	6GB
RP-SDM12:	12GB
RP-SDV16:	16GB
RP-SDV32:	32GB

BATTERY PACK AND AC ADAPTOR

Battery Pack

CGA-S005	for LX3/FX100
CGA-S007	for TZ series
CGR-S006	for FZ series
CGR-S603	for L1
DMW-BCE10	for FX150/FX37/FS series
DMW-BLA13	for L10

AC Adaptor

DMW-AC5	for TZ series/LX2/FX series/FS series
DMW-AC6	for LZ series/LS80
DMW-AC7	for FZ series

EXTRAS



REMOTE SHUTTER
DMW-RSL1 for FZ50/D-SLR
DMW-RS1 for FZ50



MARINE CASE*
To a depth of 40m/131ft
DMW-MCTZ5 for TZ5/TZ4
DMW-MCFX35 for FX35
DMW-MCF55 for FS5/FS3

SHOULDER STRAP

DMW-SSTL1 for D-SLR



DC COUPLER*
DMW-DCC2
For FZ50/D-SLR
for LZ series/LS80
* Use of the AC adaptor
DMW-AC6 is required.



COMPONENT CABLE
DMW-HDC2
For TZ series FX150/FX37

CARRYING CASES



For FZ50/D-SLR



For FZ50



For LZ series, LS80



For FZ8



For FX37, FS series



For FX37, FS series



For FX37/FX35/FS series, FX100



For FZ18*, FZ8
*Main unit only,
without Lens Hood



For FZ18, FZ8



DMWD-CFS20-K
For FX37, FS20, FS5, FS3



DMWD-CT2K
For TZ5



DMWD-CFX500-K
For FX500, FX150



For FX500, TZ series,
LZ series, LS80



For LX3

Full HD Camcorder



The new remarkable Full HD camcorder HDC-SD100 lets you capture artistically expressive images with superb details and deep, vivid colours.



Panasonic Full HD camcorders record with 1920x1080 resolution – the highest level of HD quality. Enjoy movie-like, crisp and clear pictures, natural colours with Panasonic's new Full HD camcorders HDC-SD100 and HDC-HS100.

The 3MOS system uses separate MOS sensors to capture red, green and blue light components. You get rich, expressive video recordings with vivid colours and super-fine details.



The manual ring offers easy, fingertip control over focus, zoom and exposure settings. With the manual ring and manual operation, the HDC-SD100 and HDC-HS100 are a pleasure to use and give freedom to create unusually expressive images.



The new HDC-SD100 and HDC-HS100 also introduce a new high-performance Leica lens whose resolution and contrast has been improved by refinements to the existing low-dispersion and aspherical lens.



Intelligent Auto Mode Technology Perfect settings every time – automatically.

In iA mode the image stabilisation, contrast correction and face detection are automatically activated. Additionally, the Optical Image Stabiliser corrects every blur caused by hand shake.



Shake Detection with Advanced O.I.S.
No more blur caused by hand shake!



Face Detection AF/AE
No more out-of-focus portraits!



Intelligent Scene Detection
No more complicated settings!



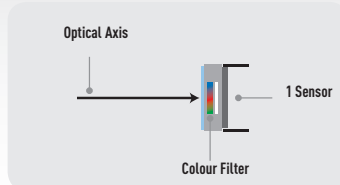
Intelligent Contrast Control
No more washed-out images!



CAPTURING EVERY MOMENT MATTERS

CAMCORDER

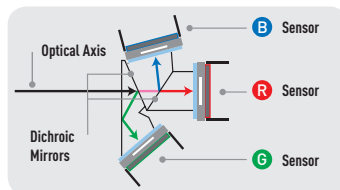
Expressive Performance with Detailed Images and Lifelike Colouring



One Sensor System



The skin tone and vegetables look artificial



Three Sensor System



Both skin tone and vegetables have a natural colour

Superb colour reproduction with faithful, natural colours and delicate nuances

The three sensor camera systems 3MOS and 3CCD incorporated in Panasonic's Full HD camcorders use separate sensors to capture red, green and blue light components – so no light is wasted. Record rich, expressive videos with vivid colours and super-fine details that make your Full High Definition images come to life. Panasonic's three sensor systems draw out the full potential of Full HD image quality just as professional broadcasting cameras do.

ADVANCED THREE SENSOR TECHNOLOGY

**FULL
HD**
1920X1080
1250X1080

FULL HIGH DEFINITION 1920X1080 RECORDING

Why is the image quality so much better? Panasonic's Full HD camcorders record horizontal pixels at an HD resolution of up to 1.920 pixels resulting in a total of around 2.070.000 pixels. Besides, High Definition images contain four times as much information as standard images. Viewed on a Viera HD TV set, the pictures are so sharp and clear that you can even distinguish textures. That is the kind of image quality you seek for capturing special moments. With Panasonic's Full HD TVs and Blu-ray players viewing your High Definition movies in best quality is convenient and easy.

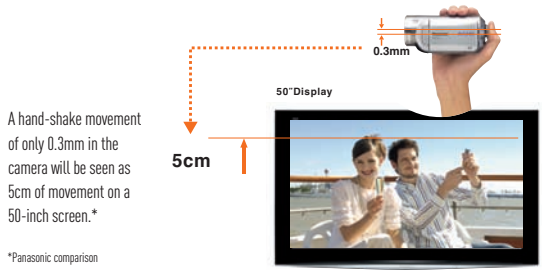
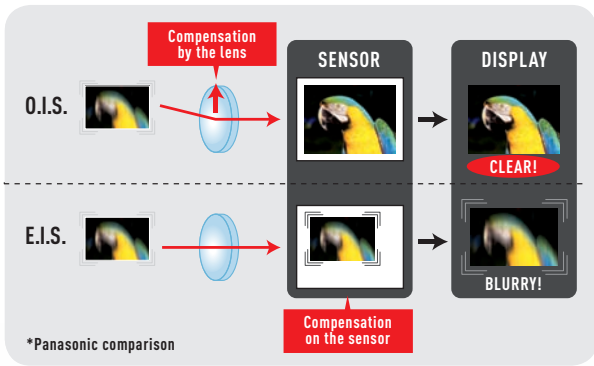


SD CARD TECHNOLOGY

SD Memory cards are extremely shock resistant because of their type of construction thus making all SD Card based camcorders shock proof, too. In addition, it is the small size and light weight of SD Memory Cards that makes it possible to build such compact camcorders that can be taken along anywhere at any time. Panasonic's new 12GB and 6GB SDHC Memory Cards have been invented especially for optimized Full High Definition recording. On a 32 GB SD Memory card you can record up to 8 hours of Full HD movies.



Leica Dicomar – Lens quality is even more important than ever before when making High Definition recordings. Therefore, the Leica Dicomar lens, developed specifically for Full HD camcorders and featuring Leica’s original optical technology, is an advanced lens that captures clear, crisp and finely nuanced pictures with outstanding detail and contrast.



Clear, beautiful moving pictures on a large Flat Screen TV
Image quality is in no way reduced with the Advanced O.I.S. / O.I.S. lens compensation. The lens moves up-down or left-right, bending the incoming light in order to correct the effects of hand-shake.



Panasonic’s Advanced O.I.S. system corrects the effects of hand-shake 4,000x/second, balancing out jittery movements before light enters the Sensor. This compensation functionality is effective for both moving and still pictures. The technology behind it is very effective – the Advanced O.I.S. system uses gyrosensors to detect movement caused by hand-shake and adjusts the lens inside to compensate it. As this system is an optical one, image quality will not be compromised.

ADVANCED O.I.S. SYSTEM



Through backlight faces are hard to see



Faces are bright and sharp

FACE DETECTION

It is difficult to shoot scenes with deep shadows or large differences between light and dark areas. The subject often looks too dark and faces are hardly visible. The new Panasonic Full-HD camcorder solve this problem with their Face Detection function which automatically adjusts the exposure according to the ambient brightness. As a result, faces are bright and easy to see. When the camcorder detects a face in the scene, a square frame appears in the LCD monitor and exposure is adjusted to the correct brightness level. In addition, the skin tone will be smoothed as well. Face Detection can detect up to five faces at a time. With the new Face Detection function, Panasonic’s Full-HD camcorders make it easy to capture beautiful faces and clear backgrounds even in dim or backlit situations.

Camcorder Line up

FULL HIGH DEFINITION CAMCORDERS



HDC-SD100



HDC-HS100



HDC-SD9



HDC-HS9

With the new HDC-SD100 and HS100, as well as HDC-SD9 and HDC-HS9 you can capture beautiful images with superb detail and deep, vivid colours. Panasonic's new Full HD camcorders offer

1920x1080 recording and the option of a very handy SD Card or SD Card/Hard Disk Drive Hybrid model. No matter which type is chosen – you can count on beautiful memories which will remain fresh forever.

SD CARD CAMCORDERS



SDR-SW20



SDR-S9



SDR-S7

Combining the advantages of the latest SD Card technology with irresistible compact style and robust construction, the new SD Card camcorders won't let you down, however tough the location.

Waterproof to a depth of 1.5m and shockproof up to 1.2m, these camcorders are ready to capture life as it happens, where ever you may be – from a night out with friends to a day at the beach.



SD CARD/HDD HYBRID CAMCORDERS



SDR-H280



SDR-H60



SDR-H40

In addition to the highly reliable SD Card camcorders, the SD/HDD Hybrid models also offer a built-in HDD capacity of up to 60GB. Equipped with a powerful Optical Zoom (up to 50x) and an Advanced

Optical Image Stabiliser (O.I.S.), the SD/HDD camcorder models provide all you need to get right in amongst the action. The dual recording format means you should never run out of 'tape' again!

DVD CAMCORDERS



VDR-D50

Easy to shoot – easy to view – easy to enjoy. When it comes to shooting videos, the easier the better. These DVD camcorders are perfect for people who simply wish to shoot video they can instantly enjoy on their DVD player* at home.

*Requires compatible DVD player

MINI DV CAMCORDERS



NV-GS330



NV-GS90

The classic MiniDV camcorders offer sophisticated technology with high Optical Zoom (up to 42x) and an Advanced Optical Image Stabiliser (O.I.S.). They are suitable for long recordings even on journeys due to recording media that is available all over the world.

High Definition Camcorder



HDC-SD100

COMPACT HD CAMCORDER WITH 3MOS SENSOR AND MANUAL OPERATION

- Full HD 1920x1080 25p Progressive Recording
- 3MOS Camera System
- Manual Ring Operation
Focus / Shutter Speed / Zoom / Iris / White Balance
- Advanced Optical Image Stabiliser (O.I.S.)
- Face Detection
- LEICA DICOMAR Lens*
- 5.1 Surround Sound
- Intelligent Auto Technology
Face Detection / Intelligent Scene Selector / Advanced O.I.S. / Intelligent Contrast Control



- Recording on SD Card up to 32GB*
* Not included
- Additional features

2.7" Wide LCD, 2.1 Megapixel Still Picture Recording, HDMI Connection (Mini), Recording on SD/SDHC Card, Pre-Recording Function, 12x Optical Zoom, Zoom & Focus Microphone, Intelligent Shooting Guide & Intelligent Shooting Selection Playback, 0.6 sec Quickstart, AVCHD editing software HD writer 2.5, Compatible with DVD Burner VW-BN1 for AVCHD Storage & Playback

HDC-HS100

COMPACT HD CAMCORDER WITH 3MOS SENSOR AND MANUAL OPERATION

- Full HD 1920x1080 25p Progressive Recording
- 3MOS Camera System
- Manual Ring Operation
Focus / Shutter Speed / Zoom / Iris / White Balance
- Advanced Optical Image Stabiliser (O.I.S.)
- Face Detection
- LEICA DICOMAR Lens
- Intelligent Auto Technology
Face Detection / Intelligent Scene Selector / Advanced O.I.S. / Intelligent Contrast Control
- 60GB HDD or recording on SD/SDHC Card up to 32GB*
* Not included



- Additional features

12x Optical Zoom, 2.7" Wide LCD, 2.1 Megapixel Still Picture Recording, HDMI Connection (Mini), Recording on SD/SDHC Card and 60GB HDD, Pre-Recording Function, 5.1 Surround Sound, Zoom & Focus Microphone, Intelligent Shooting Guide & Intelligent Shooting Selection Playback, 0.6 sec Quickstart, AVCHD editing software HD writer 2.5, Compatible with DVD Burner VW-BN1 for AVCHD Storage & Playback



HDC-SD9

SUPER COMPACT FULL HIGH DEFINITION SD CARD CAMCORDER

- Full HD 1920x1080 25p Progressive Recording
- 3CCD Camera System
- Advanced Optical Image Stabiliser (O.I.S.)
- Face Detection
- LEICA DICOMAR Lens
- 5.1 Surround Sound
- Recording on SD Card up to 32GB*

* Not included

• Additional features

2.7" Wide LCD, 2.1 Megapixel Still Picture Recording, HDMI Connection (Mini), Recording on SD/SDHC Card, Pre-Recording Function, Intelligent Contrast Control, 10x Optical Zoom, Zoom & Focus Microphone, Intelligent Shooting Guide & Intelligent Shooting Selection Playback, 0.6 sec Quickstart, AVCHD editing software HD writer 2.5, Compatible with DVD Burner VW-BN1 for AVCHD Storage & Playback



HDC-HS9

FULL HIGH DEFINITION SD/HDD HYBRID CAMCORDER

- Full HD 1920x1080 25p Progressive Recording
- 3CCD Camera System
- Advanced Optical Image Stabiliser (O.I.S.)
- Face Detection
- LEICA DICOMAR Lens
- 60GB HDD or recording on SD/SDHC Card up to 32GB*

* Not included

• Additional features

10x Optical Zoom, 2.7" Wide LCD, 2.1 Megapixel Still Picture Recording, HDMI Connection (Mini), Recording on SD/SDHC Card and 60GB HDD, Pre-Recording Function, Intelligent Contrast Control, 5.1 Surround Sound, Zoom & Focus Microphone, Intelligent Shooting Guide & Intelligent Shooting Selection Playback, 0.6 sec Quickstart, AVCHD editing software HD writer 2.5, Compatible with DVD Burner VW-BN1 for AVCHD Storage & Playback

SD Card Camcorder



SDR-SW20

WATER PROOF SD CARD CAMCORDER

- Water Proof (up to 1.5m)
- Shock Proof (up to 1.2m)
- Dust Proof
- 10x Optical Zoom
- 2.7" Wide LCD
- MPEG2 recording (DVD quality)
- Recording on SD/SDHC Card up to 32GB*
* Not included
- World Timer



- Additional features
0.6 sec Quickstart, Compatible With DVD Burner VW-BN1 for Storage & Playback



PRE-REC.



SDR-S7

THE SMART, COMPACT SD CARD CAMCORDER

- Ultra Compact Size (41x59x102mm)
- 10x Optical Zoom
- 2.7" Wide LCD (16:9)
- 3 sec. Pre-Record
- YouTube Uploading Software Included
- Recording on SD/SDHC Card up to 32GB*
* Not included
- World Timer
- Additional features
0.6 sec Quickstart, Compatible With DVD Burner VW-BN1 for Storage & Playback



SDR-S9

ACTIVE FUN SD CARD CAMCORDER

- Water Resistant
- Shock Proof (up to 1.2m)
- Dust Proof
- 10x Optical Zoom
- 2.7" Wide LCD (16:9)
- Additional features
0.6 sec Quickstart, Compatible With DVD Burner VW-BN1 for Storage & Playback

SD/HDD Hybrid Camcorder



LEICA
DICOMAR

3.1
MEGA
PIXEL



SDR-H280

3CCD SD/HDD CAMCORDER
FOR SUPERB COLOUR REPRODUCTION

- 3CCD Camera System
- Optical Image Stabiliser (O.I.S.)
- LEICA DICOMAR Lens
- 3.1 Megapixel Still Picture Recording
- 30GB HDD
- Additional features
SD Card Slot (Movie/Still), 2.7" Wide LCD,
10x Optical Zoom, Software included



SDR-H60

SD/HDD CAMCORDER

- Advanced Optical Image Stabiliser (O.I.S.)
- 50x Optical Zoom
- 2.7" Wide LCD (16:9)
- 60GB HDD
- SD Card Slot (Movie/Still)
- Additional features
Compatible With DVD Burner VW-BN1 for Storage
& Playback, Software included



SDR-H40

SD/HDD CAMCORDER

- Advanced Optical Image Stabiliser (O.I.S.)
- 42x Optical Zoom
- 2.7" Wide LCD (16:9)
- 40GB HDD
- SD Card Slot (Movie/Still)
- Additional features
Compatible With DVD Burner VW-BN1 for Storage
& Playback, Software included

DVD/DVC Camcorder



VDR-D50 DVD CAMCORDER

- Advanced Optical Image Stabiliser (O.I.S.)
- 42x Optical Zoom
- USB 2.0 (HS Mode)
- 2.7" Wide LCD (16:9)
- Multi-Format Recording
DVD-RAM/-RW/-R/-R DL
- Additional features
SD Card Slot (Still), Software included



3CCD



LEICA
DICOMAR

3.1
MEGA
PIXEL
FULL FRAME RECORDING

NV-GS330

3CCD MINI DV CAMCORDER FOR
SUPERB COLOUR REPRODUCTION

- 3CCD Camera System
- Optical Image Stabiliser (O.I.S.)
- LEICA DICOMAR Lens
- 2.7" Wide LCD (16:9)
- 3.1 Megapixel Still Picture Recording
- Additional features
10x Optical Zoom, USB 2.0 (HS Mode), Software included,
Accessory Shoe, SD Card Slot (Still)



NV-GS90

MINI DV CAMCORDER

- Advanced Optical Image Stabiliser (O.I.S.)
- 2.7" Wide LCD (16:9)
- 42x Optical Zoom
- LED Video Light
- Colour View Finder

Camcorder Accessories



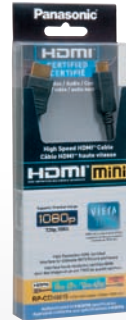
DVD Burner

VW-BN1



Rechargeable Lithium-Ion Battery Pack

VW-VBG070
VW-VBG130
VW-VBG260
CGA-DU12
CGA-DU14
CGA-DU21



HDMI Mini Cable

RP-CDHM15
RP-CDHM30



HDMI Cable

RP-CDHG10
RP-CDHG15
RP-CDHG20
RP-CDHG30
RP-CDHG50
RP-CDHG80
RP-CDHG100



DV Cable

VW-CD1

Camcorder Accessory Compatibility

Model	Description	SD 100	SD9	HS 100	HS9	SD5	SD1	SX5	DX1	SW20	S9	S7	S150	H280	H250	H60	H40	H20	D310	D220	D50	D160	GS 500	GS 330	GS 320	GS 230	GS85	GS90	GS80	GS60
VW-CD1E	DV Cable																						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VW-FLH3E	Hot Shoe Video Flash							x															x							
VW-LDC102E-S	Video DC Light	-	Yes ^{*4}	-	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes	Yes	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes	Yes	Yes ^{*4}	Yes ^{*4}	Yes	Yes	Yes	Yes	Yes	Yes ^{*4}	Yes ^{*4}
VW-SK12E-K	Shoe Adaptor		Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VW-VBG070E-K	Info. Litium, 7.2V 770mAh	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-	-	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}
VW-VBG130E-K	Info. Litium, 7.2V 1320mAh	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}
VW-VBG260E-K	Info. Litium, 7.2V 2640mAh	Yes	Yes	Yes	Yes	Yes ^{*5}	Yes ^{*5}	Yes	Yes	-	-	-	-	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}	Yes ^{*3}
VW-VBJ10E-K	3.6V 1000mAh	-	-	-	-	-	-	-	-	Yes	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VW-VH04E-K	Battery Pack Holder Kit	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PS-084	Bag and Tripod																													
VW-LDC103-K	Video DC Light	Yes	Yes ^{*4}	Yes	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes	Yes	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes ^{*4}	Yes	Yes	Yes ^{*4}	Yes ^{*4}	Yes	Yes	Yes	Yes	Yes	Yes ^{*4}	Yes ^{*4}

*3 Without "remaining battery life display" function *4 Shoe adaptor required *5 only with VH04

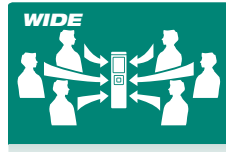
IC-Recorder

Easy to Select Recording Positions



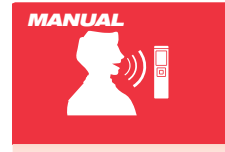
FOR TARGET RECORDING

Clearly records the voice of one specific person in front of the room, for lectures, presentations, culture class sessions, etc. (Zoom Recording, High Sensitivity, High Sound Quality)



FOR GROUP RECORDING

Clearly records the voices of several people in meetings, business discussions, debates, language classes, etc. (Stereo Recording, High Sensitivity, High Sound Quality)



FOR RECORDING WITH CUSTOM SETTINGS

Lets you make the settings yourself, when recording your own voice, or someone in front of you by holding the IC recorder close to the speaker.

Playback, Storage, Recharge



MP3 PLAYBACK

Sound data is recorded in MP3 format, so it can easily be uploaded to a PC and played back with Windows® Media Player. Playback is fast too, because there's no need to install special PC software.*



USB MASS STORAGE

Full compliance with the USB Mass Storage standard makes it possible to connect the recorder to the USB terminal of your PC and store data in PC memory. The IC recorder makes it easy to exchange data that contains both voice recordings and documents.



USB RECHARGE

The battery is automatically recharged while the IC recorder is connected to a PC by the USB cable.



4 X ZOOM MICROPHONE

Three microphones work together to focus the recording precisely on your subject's voice. The sensitivity is four times as high in the forward-facing direction than in the left-right direction, to ensure that the subject's voice is clearly captured. This is especially useful during conferences, lectures, or interviews having many participants.



QUICK SEARCH DIAL

New Panasonic IC recorders feature easier-to-use style. The centre dial allows fingertip control so you can smoothly skip and search files. Operating the Cross Lever on the centre of the dial simplifies Menu settings (recording mode, mic sensitivity, etc.).

* For models RR-US490, RR-US470, RR-QR270

*System requirements:

• OS: Windows® 98, Windows® 98SE, Windows® Me, Windows® 000 Professional SP4, Windows® XP Home Edition/Professional and SP1, SP 2, Windows Vista® Home Basic/Home Premium/Business/Ultimate • Free hard disk space: 150MB or more. Additional free hard disc space may be necessary depending on the Windows® version and voice file being used. • Drive: CD-ROM (for installation), CD-R/RW drive (required to use the CD-R writing function in Windows® XP. Windows® is a registered trademark of Microsoft Corporation of the U.S.A.)



RR-US950 IC-RECORDER

- 4x Built-in Zoom Microphone
- MP3 Stereo High Quality Recording
- Up to 290 Hours Recording in EP Mode
- 2GB Built-in Memory
- USB Charging with PC-Link
- 3 selectable record settings
Zoom, Wide, Manual
- Additional Features
File Security Function, Easy Recording Setting
- Accessories
USB Cable, Ni-MH Rechargeable Battery with Case



RR-US490 IC RECORDER

- Built-in Zoom Microphone
- Up to 270 Hours Recording in SP Mode
- 512MB Built-in Memory
- Quick Search Dial
- File Security Function
- Digital Transcriber Function
- Accessories

USB Cable, Mini Jack Cable, PC Application Voice, Editing 2.0 Premium Edition



RR-US750 IC-RECORDER

- 4x Built-in Zoom Microphone
- MP3 Stereo High Quality Recording
- Up to 145 Hours Recording in EP Mode
- 1GB Built-in Memory
- USB Charging with PC-Link
- 3 selectable record settings
Zoom, Wide, Manual
- Additional Features
File Security Function, Easy Recording Setting
- Accessories
USB Cable, Ni-MH Rechargeable Battery with Case



RR-QR270 IC RECORDER

- Up to 167 hours recording in SP Mode
- 256MB Built-in Memory
- Quick Search Dial
- File Security Function
- 14mm Thin Style



Portable Audio



RF-D5EB-K
DAB Portable Radio

- 10 DAB Presets
- 10 FM Presets
- Large Rotary Tuning Dials for Ease of Use
- Improved Sound Quality (4 Choices: Standard, News, Hi and Music)

RX-ES29EB-S **MP3**
CD Radio Recorder

- Power Blaster for High Power Sound – 20W RMS
- MP3-CD Playback and MP3 Remaster Function
- FM/AM Digital Synthesizer Tuner



RX-D29EB-S **MP3**
CD Radio Recorder

- MP3-CD Playback and MP3 Remaster Function
- FM/AM Digital Synthesizer Tuner
- 2 Way 4-Speaker



RX-D26EB-S
CD Radio Recorder

- 3-D Sound with Sound Virtualiser
- FM/AM Digital Synthesizer Tuner
- Auto Scan



RC-7290
Clock Radio

- Analogue FM/AM Tuner
- Doze and sleep function
- 2-Alarm System



RX-ED50EB-S
CD Radio Recorder

- Power Blaster – 20W RMS
- FM/AM Digital Synthesizer Tuner
- CD-Player
- Double Cassette Deck



RC-6266
Clock Radio

- Analogue FM/AM Tuner
- Doze and sleep function



Technics Turntable



SL-1210M5G

Turntable with Quartz Synthesizer
Direct Drive Motor

- 0-8% / 0-16% changeable digital Pitch Control
- Stylus Pressure Adjuster
- Long Life Blue LED Stylus Light
- Oxygen free cabling
- 0.6g Anti-Skate
- Adjustable Break Speed
- Black finish



SL-1210MK2

Turntable with Quartz Synthesizer
Direct Drive Motor

- Quartz Direct Drive Platter
- Precision Moulded Aluminium Diecast Cabinet
- 1.5kg(cm) Torque for Fast Start-ups
- 0-8% Pitch Shift with Centre Indent
- 0.3g Anti Skate
- Black Finish

SL-1200MK2

- Same as SL-1210MK2, but Silver finish



SL-1210MK5

Turntable with Quartz Synthesizer
Direct Drive Motor

- 0.6g Anti Skate
- Adjustable Brake Speed
- Long Life LED Stylus Light
- 0-8% Continuous Pitch Shift with Reset
- Black finish

SL-1200MK5

- Same as SL-1210MK5, but Silver finish

Earphones

IN EAR



RP-HV280E-S

- In-cord Volume Control
- Carry Case
- New Cord Slider for Tangle Free Storage
- Available in Silver

EAR PLUG



RP-HJE500E-K/S

- Ergo Fit
- Aluminium Housing
- 3 Size Silicon Ear Pieces
- Carry Pouch
- Available in Black and Silver



RP-HJE300E-K/W

- Ergo Fit
- Carry Pouch
- 3 Size Silicon Ear Pieces
- Available in Black and White



RP-HJE240E-K/A/G/S/R

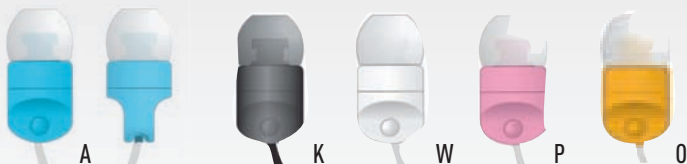
- Perfectly Matching Colours for iPod Nano
- 3 Pairs of Earpieces (S/M/L)
- Gold Plated Plug
- Available in Black, Blue, Green, Silver and Red

EAR CANDY



RP-HV21E-K/A/P/W/G

- Ear Candy with Twist Free Cord
- Available in Black, Blue, Pink, White and Green



RP-HJE100E-W/K/A/P/O

- New Entry Level Ear Canal - 3 Size Silicone Ear Piece
- 5 Vibrant Colours
- Uncompromising Sound Quality
- Available in Blue, Black, White, Pink and Orange

SPORTS CLIP ON



RP-HS33E-G

- Water and Sweat Resistant - Designed for Running and Outdoor Use
- Comfort Fit Ear Hanger Designed for Strenuous Activity
- Vibrant Green

Headphones

CORDLESS

RP-WF6000EBS

- Cordless Headphones
- 5.1ch Format
- 2-Way Recharge System
- Digital Transmission
- 50mm Driver Units



RP-WF930EB-S

- FM Cordless Headphones
- 100m Range
- Surround Sound Control
- Automatic Tuning System and Rechargeable Stand

2.5MM MINI PLUG HEADPHONES

RP-HJE201E-K

- 2.5mm Plug for Mobile Phone and Digital Audio Player
- Canal Type with 3 Silicone Ear Pieces



RP-HV241E-K

- 2.5mm Inner Earphone for Mobile Phone and Digital Audio Player Use
- Anti-Tangle Cord

NOISE CANCELLING

RP-HC500E-S

- Top End Noise Cancelling Headphones
- 92% Active Noise Cancelling
- Includes Carry Case
- 40 Hr AAA Battery Life



RP-HC31E-K

- High End Noise Cancelling -83% Noise Reduction
- 50 Hr AAA Battery Life
- Ergo Fit - 3 Size Silicone Ear Piece
- Built In Mute Control

TECHNICS PRO DJ

RP-DH1200E-S

- Pro DJ Headphones
- Single Side Monitoring - 50mm Drive Unit
- Max. Input 3500mW



Technics

LIGHTWEIGHT HEADPHONES

RP-HX50E-S

- Lightweight Travel Folding Headphones in DVD Carry Box



RP-HX70E-K

- Slim Lightweight Headphones with Cord Rewinding
- 23mm Slim and Fold Flat Design
- Polycarbonate Carrying Case Supplied
- Aluminium Cap



HDMI Cables

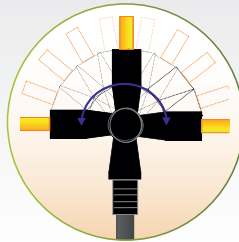
THE WORLD 1ST - ONLY FROM PANASONIC

FREE ANGLE HDMI

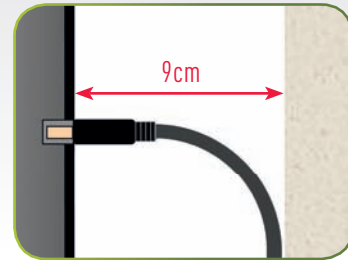
- RP-CDHF15E-K (1.5M)
 RP-CDHF30E-K (3.0M)
- Free 180 Degree Rotating Head - Both Ends
 - Gold Plated
 - Version 1.3a Category 2 High Speed



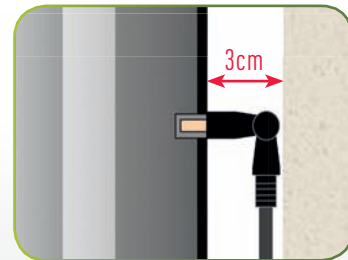
NEW



Conventional HDMI Cable



FREE ANGLE HDMI Cable



HDMI
 HIGH-DEFINITION MULTIMEDIA INTERFACE

HDMI CABLES

- BLACK
- RP-CDHG15E-K (1.5M)
 RP-CDHG30E-K (3.0M)
 RP-CDHG50E-K (5.0M)
- Uncompressed High-Definition Video, Multi-Channel Audio Formats
 - Single Cable Installation
 - VIERA Link
- Also Available in White
- RP-CDHG15E-W (1.5m)
 RP-CDHG30E-W (3.0m)
 RP-CDHG50E-W (5.0m)



HDMI MINI CABLES

- RP-CDHM15E-K (1.5M)
 RP-CDHM30E-K (3.0M)
- Uncompressed High-Definition Video, Multi-Channel Audio Formats
 - Single Cable Installation
 - VIERA Link
 - All Panasonic HDMI Cables are Certified Category 2 High Speed



Panasonic HDMI cables are compliant with version 1.3a category 2 high speed. With Panasonic HDMI cables you can utilise VIERA LINK functionality with a single remote control. For best results guaranteed use Panasonic HDMI cables for your home networking needs.

HDMI
 Ver. 1.3a Category 2
 HIGH SPEED

Recording Media

SD / SDHC MEMORY CARDS

PRO HIGH SPEED SD-MEMORY CARDS



RP-SDV32GE1K - 32GB

- Data Transfer up to 20 MB/sec.
- Class 6
- Writable card-label
- Also available with:
16GB (RP-SDV16GE1K)
8GB (RP-SDV08GE1K)
4GB (RP-SDV04GE1K)



RP-SDV02GE1K - 2GB

- Data Transfer up to 20 MB/sec.
- Class 6
- Writable card-label

HIGH SPEED FULL HD VIDEO SD-MEMORY CARDS



RP-SDM12GE1K - 12GB

- For 180 Minutes HD Recording Time (1920 x 1080 with 9Mbps)
- Data Transfer up to 10 MB/sec
- Class 4



RP-SDM06GE1K - 6GB

- For 90 Minutes HD Recording Time (1920 x 1080 with 9Mbps)
- Data Transfer up to 10 MB/sec
- Class 4

HIGH SPEED SD-MEMORY CARDS



RP-SDM04GE1K - 4GB

- Data Transfer up to 10 MB/sec.
- Class 4, writable card-label



RP-SDM02GE1A - 2GB

- Data Transfer up to 5 MB/sec.
- Class 4, writable card-label
- Also available as
1GB, Class 2 RP-SDR01GE1A
- Also available as
2GB, Class 4 RP-SDM02GE2A

MINI DV CASSETTE



AY-DVM60FE

Linear Plus Mini DV Cassette
in 3 / 5 / 10 Pack

- 60 min. Running Time (SP Mode)

BLU-RAY DISCS



LM-BR25DE

Blue-ray Disc Write-Once

- 2 Times Speed / 25 GB Capacity / Single Sided
- Also available in 50 GB Capacity (LM-BR50DE)



LM-BRU25AE

Blue-ray Disc Write-Once

- 2 Times Speed / 25 GB Capacity / Single Sided
- Also available in 50 GB Capacity (LM-BRU50AE)



LM-BE50DE

Blue-ray Disc Rewritable in Dual Layer

- 2 Times Speed / 50 GB Capacity / Single Sided
- Also available in 25 GB Capacity (LM-BE25DE)



LM-BEU50AE

Blue-ray Disc Rewritable in Dual Layer

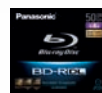
- 2 Times Speed / 50 GB Capacity / Single Sided
- Also available in 25 GB Capacity (LM-BEU25AE)



LM-BR50LDE

Blue-ray Disc Write Once

- 4 Times Speed / 50 GB Capacity / Single Sided
- Also available in 25 GB Capacity (LM-BR25LDE)



LM-BR50MDE

Blue-ray Disc Write Once

- 6 Times Speed / 50 GB Capacity / Single Sided
- Also available in 25 GB Capacity (LM-BR25MDE)

DVD-RAM / -RW / -R (8CM) FOR VIDEO CAMERAS



LM-AF60E3

DVD-RAM Double Sided 8 cm

- 2.8 GB Storage Capacity (60 min.) / Pro Hard Coated
- Also available Single Sided / 1.4 GB / 30 min (LM-AF30E3)

DVD-RAM FOR VIDEO & DATA



LM-AD240LE3

DVD-RAM Double Sided in Removeable Cartridge

- 2-3 Times Speed / 9.4 GB Capacity (240 min.)



LM-AF120LE5/LE10

DVD-RAM Single Sided in 5 or 10 Pack

- 2-3 Times Speed / 4.7 GB Capacity (120 min.)

DECT Phones

EVERY CALL MATTERS

Whether it's for a home office or for your home life: Panasonic has a dect phone for all users. You can choose from compact cordless designs and elegant models with built-in answering machines and colour display. Of course, superlative digital speech clarity is offered as standard on each model as are breathtaking aesthetics and peerless ergonomics.

DIGITAL Crystal Clear Sound Clarity

EASY Operation

INNOVATIVE Feature set

STYLISH Colour & Designs

EXPANDABLE Multiple Handset Operation

DECT

FUN FOR THE WHOLE FAMILY

KX-TG8321EB FLAGSHIP TELEPHONE WITH ANSWERING MACHINE

- Sophisticated Design
- Large 65k Colour LCD
- Telephone Answering System (about 40min.)
- SMS¹ Text Messaging
- Additional Features
200 Name and Number Phonebook

Also available in Twin (KX-TG8322EB) & Triple (KX-TG8323EB) & Quad (KX-TG8324EB)

¹ May require subscription of your local operator



eco ideas

Colour DECT



eco ideas
DECT

KX-TG7321EG

VALUE ADDED TELEPHONE WITH ANSWERING MACHINE

- Ergonomic Handset
- Illuminated Keypad & 3 Line LCD
- Telephone Answering System (about 20min.)
- Additional Features
Speakerphone, 100 Name and Number Phonebook

Also available in Twin (KX-TG7322EG) & Triple (KX-TG7323EG) & Quad (KX-TG7324EG)



DECT

KX-TG7301EB

VALUE ADDED TELEPHONE

- Ergonomic Handset
- Illuminated Keypad & 3 Line LCD
- 100 Name & Number Phonebook
- Hands-Free Speakerphone

Also available in Twin (KX-TG7302EB) & Triple (KX-TG7303EB) & Quad (KX-TG7304EB)



DECT

KX-TG1100ES

ENTRY LEVEL TELEPHONE

- Illuminated LCD
- 50 Name & Number Phonebook
- Caller ID¹
- Time, Date & Alarm

Also available in Twin (KX-TG1102ES) & Triple (KX-TG1103ES)

¹ May require subscription of your local operator



DECT

KX-TG7341EM

DUAL KEYPAD TELEPHONE WITH ANSWERING MACHINE

- Telephone Answering System (about 20min.)
- Dual Keypad
- 100 Name & Number Phonebook
- Hands-Free Speakerphone

Extra handset: KX-TGA731
Also available in Twin (KX-TG7342EM)



DECT

KX-TG7160ES

BIG BUTTON TELEPHONE WITH ANSWERING MACHINE

- Telephone Answering System (about 20min.)
- Big Buttons
- 50 Name & Number Phonebook
- Hands-Free Speakerphone
- Additional Features
Headset Jack, Illuminated Keypad

Extra handset: KX-TGA715ES



DECT

KX-TG7180ES

BONE CONDUCTION TELEPHONE WITH ANSWERING MACHINE

- Bone Conduction
for Enhanced Hearing Ability
- Telephone Answering System (about 20min.)
- Big Buttons
- 50 Name & Number Phonebook
- Additional Features
Hands-Free Speakerphone, Headset Jack

Extra handset: KX-TGA717ES



Colour DECT

KX-TG9120ES

MULTIFUNCTIONAL TELEPHONE WITH COLOUR SCREEN & TAM

- Connect to Monitoring Camera, Skype Adaptor & Door Entry System
- Additional Features

CLI¹ and SMS¹ Compatible, 50 Numbers Call Log, Telephone Book with 200 Entries, Hands-Free Talking, Illuminated Keypad and Display, TAM built in Base Unit (about 40min.) with TAM Operation from Handset and Base

Extra Handset: KX-TGA910ES, Monitor Camera: KX-TGA914ES, SKYPE Adaptor: KX-TGA915EXS

¹ May require subscription of your local operator



Colour DECT
skype™

KX-TG9150ES

DECT TELEPHONE WITH SKYPE ADAPTOR

- Make and Receive Phone Calls over Traditional Landline or via PC Connection (Voice over IP)
- Wireless Skype USB Adaptor Included
- Skype Buddy List
Displays Who's Available to Talk
- Easy-to-Operate Full Dot 1.5 Inch Colour Display
- Additional Features

CLI¹ and SMS¹ Compatible, 50 Numbers Call Log, Telephone Book with 200 Entries, Hands-Free Talking, Illuminated Keypad and Display, TAM built in Base Unit (about 40min.) with TAM Operation from Handset and Base

Extra Handset: KX-TGA910ES, Monitor Camera: KX-TGA914ES

¹ May require subscription of your local operator



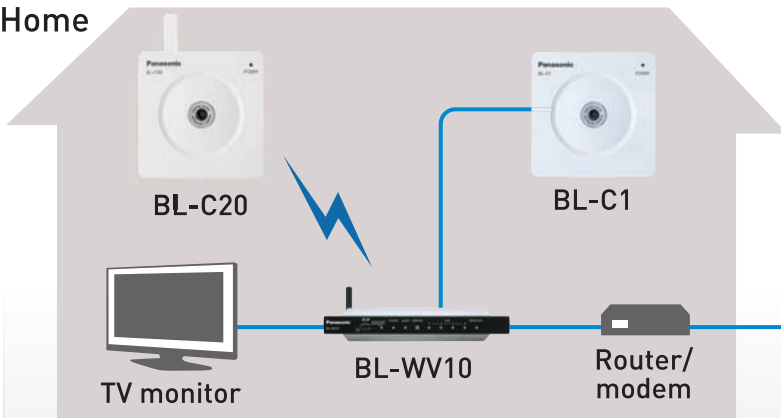
KX-TS710EXB

USB SPEAKERPHONE

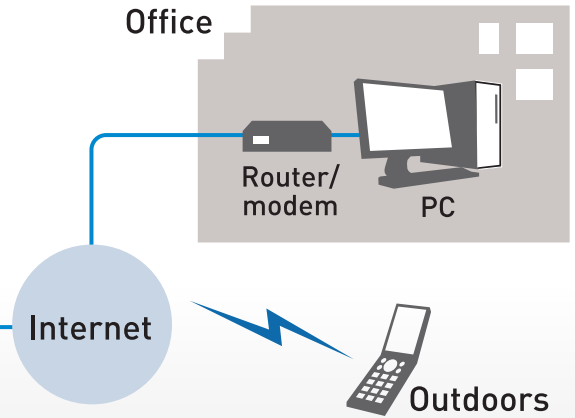
- Plug & Play Set Up
- Use as a Speaker for Music
- Use to Talk on Softphone
Skype, MSN etc
- High Quality 8kHz Sound

Home Network Cameras

Home



Office



SEE THERE WHEN YOU CAN'T BE THERE HOME, OFFICE, GARAGE

Home Security is an important issue, especially in today's world when occupants tend to spend a lot of time away from home. While it may be difficult to introduce an expensive security system, Panasonic's Network Cameras make it easy to achieve reliable home monitoring at an affordable price.

SAFETY MATTERS



BL-WV10E IP CAMERA MONITORING SYSTEM

- Plug & Play
- Monitors & Records Cameras, without a PC
- Allows Connection of up to 8 Cameras
- Remote Control for Simple Operation
- Records to SD Card
- High Security up to 152bit Encryption



BL-HCM531CE OUTDOOR MONITORING IP CAMERA WITH PAN & TILT

- Motion Detection Sensor
- Buffered Images
- Monitor through Mobile Phone
- 10x Zoom
- Remote Pan & Tilt Control
- Splash Resistant Body



BL-C111E MONITORING IP CAMERA WITH PAN & TILT

- Motion Detection Sensor
- Buffered Images
- Monitor through Mobile Phone
- 10x Zoom
- Built in Microphone

Also available as a Wireless version (BL-C131E)



BL-C1E ENTRY LEVEL MONITORING IP SECURITY CAMERA

- Motion Detection Sensor
- Buffered Images
- Monitor through Mobile Phone
- 10x Zoom

Also available as a Wireless version (BL-C20E)

Plain Paper Fax

COMMUNICATION MATTERS



Colour
DECT

DECT



KX-FC255:

Separate DECT handset with Full Dot 1.4 Inch Colour Display and 200 Names and Numbers Telephone Book

KX-FC225:

Integrated DECT handset with 3 Line Dot-matrix Display and 50 Names/Numbers Telephone Book

Main Consumable: KX-FA52X

KX-FC255 / KX-FC225

PLAIN PAPER FAX WITH DECT HANDSET & ANSWERING MACHINE

- 9600 bps Modem Speed
- 2 ppm Print Speed/Resolution
- Multi-Copy (20 Pages)
- 28 Page Memory
- 50-Station Phonebook on Fax-Base
- Caller-ID¹ with 50 Name² and Number Call-Log
- Automatic Document Feeder (10 pages)
- Illuminated Keypad and Display on DECT Handset
- Digital Answering (about 15 min.)



KX-FP215

ENTRY LEVEL PLAIN PAPER FAX WITH ANSWERING MACHINE

- Plain Paper Fax with Telephone
 - 14,400 bps Modem Speed
 - 2 ppm Print Speed/Resolution
 - Multi-Copy (20 Pages)
 - 28 Page Memory
 - 50-Station Phonebook
 - Caller ID¹
 - Automatic Document Feeder (10 pages)
 - Digital Answering with (about 15 min.)
- Also available without answering machine (KX-FP205)
- Main Consumable: KX-FA52X



KX-FP205E

ENTRY LEVEL PLAIN PAPER FAX

- 9600 bps Modem Speed
- 28 Page Memory
- 2 ppm Print Speed/Resolution

Main Consumable: KX-FA52X

¹ May require subscription of your local operator

² Requires registration in Phonebook function

Plasma Television - Full HD

MODEL	TH-65P2800B	TH-58P2800B	TH-50P2800B	TH-42P2800B
TUNER				
Tuner Integrated	Y	Y	Y	Y
DVB Digital Tuner	Y	Y	Y	Y
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)	NICAM (FM)	NICAM (FM)
Teletext Reception	2000P Level 2.5, FASTEXT/LIST	2000P Level 2.5, FASTEXT/LIST	2000P Level 2.5, FASTEXT/LIST	2000P Level 2.5, FASTEXT/LIST
Receiving System	PAL -I, DVB	PAL -I, DVB	PAL -I, DVB	PAL -I, DVB
Receiving System (AV input)	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC
DISPLAY				
Screen Size	65" (165 cm) diagonal	58" (147 cm) diagonal	50" (127 cm) diagonal	42" (106 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide
Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel
Viewing Angle	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free
Response Speed	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)
Natural Vision Filter	Y (PRO)	Y (PRO)	Y (PRO)	Y (PRO)
Progressive Scan	Y	Y	Y	Y
Number of Pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels
Colour System	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC
Applicable PC signals	SXGA	SXGA	SXGA	SXGA
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
Contrast Ratio (in dark surroundings)	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1
Shades of Gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation
Intelligent Frame Creation	Y	Y	Y	Y
100 Hz Double Scan	Y	Y	Y	Y
24p Real Cinema	Y	Y	Y	Y
24p Playback	Y	Y	Y	Y
Digital Cinema Colour	Y	Y	Y	Y
Deep Colour (10-bit)	Y	Y	Y	Y
x.v.Colour	Y	Y	Y	Y
Digital Optimiser	Y	Y	Y	Y
3D Colour Management	Y	Y	Y	Y
Sub Pixel Control	Y	Y	Y	Y
Picture Overscan	Y	Y	Y	Y
Motion Pattern Noise Reduction	Y	Y	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	Y	Y
Video Noise Reduction	Y	Y	Y	Y
3D Comb Filter	Y	Y	Y	Y
Picture Mode	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco
SOUND				
Speaker System	Smart Sound Speaker System	Smart Sound Speaker System	Smart Sound Speaker System	Smart Sound Speaker System
Speakers	Woofer (80 mm round) x 2 (L, R); Tweeter (23 x 100 mm) x 2 (L, R)	Woofer (80 mm round) x 2 (L, R); Tweeter (23 x 100 mm) x 2 (L, R)	Woofer (80 mm round) x 2 (L, R); Tweeter (23 x 100 mm) x 2 (L, R)	Woofer (80 mm round) x 2 (L, R); Tweeter (23 x 100 mm) x 2 (L, R)
Audio Output	31 W [(13W + 2.5W) x 2], 10% THD	31 W [(13W + 2.5W) x 2], 10% THD	31 W [(13W + 2.5W) x 2], 10% THD	31 W [(13W + 2.5W) x 2], 10% THD
Sound Mode	Music/Speech	Music/Speech	Music/Speech	Music/Speech
V-Audio	V-Audio Surround	V-Audio Surround	V-Audio Surround	V-Audio Surround
SRS TruSurround XT	Y	Y	Y	Y
BBE VIVA HD3D Sound	—	—	—	—
Dolby Digital	Y	Y	Y	Y
Ambience	Y	Y	Y	Y
TERMINALS				
CI (Common Interface)*	Y	Y	Y	Y
SD Memory Card Slot (SDHC Compatible)	Y (AVCHD playback)	Y (AVCHD playback)	Y (AVCHD playback)	Y (AVCHD playback)
HDMI Input	4 (1 front, 3 rear) [ver. 1.3 with Deep Colour & x.v.Colour]	4 (1 front, 3 rear) [ver. 1.3 with Deep Colour & x.v.Colour]	4 (1 front, 3 rear) [ver. 1.3 with Deep Colour & x.v.Colour]	4 (1 front, 3 rear) [ver. 1.3 with Deep Colour & x.v.Colour]
Composite Video Input	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)
S-Video Input	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)
PC Input	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)
Component Video Input	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)
Audio Input (for HDMI, PC, Component)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)
21-Pin Input/Output	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)
Monitor Out	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)
Audio Output	Headphone jack (1 front)	Headphone jack (1 front)	Headphone jack (1 front)	Headphone jack (1 front)
Digital Audio Output	Y	Y	Y	Y
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)
FEATURES				
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Screen Saver	Wobbling	Wobbling	Wobbling	Wobbling
Multi Window	PIP/PAP/PAT	PIP/PAP/PAT	PIP/PAP/PAT	PIP/PAP/PAT
Q-Link	Y	Y	Y	Y
Aspect Controls	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English	English	English
Hold	Y	Y	Y	Y
Off Timer	Y	Y	Y	Y
Child Lock	Y	Y	Y	Y
GENERAL				
Power Save Mode	Y	Y	Y	Y
Power Supply	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz
Power Consumption (Rated)	700 W	635 W	495 W	385 W
(Assumptive Actual Use)**	566 Wh	485 Wh	450 Wh	324 Wh
(Standby)	0.4 W	0.4 W	0.4 W	0.4 W
Dimensions W/O stand (W x H x D)	1,599 x 993 x 109 mm	1,445 x 898 x 109 mm	1,267 x 794 x 104 mm	1,078 x 685 x 104 mm
Dimensions with stand (W x H x D)	1,599 x 1,052 x 416 mm	1,445 x 949 x 409 mm	1,267 x 847 x 387 mm	1,078 x 733 x 327 mm
Weight W/O stand	73 kg	59.0 kg	41 kg	32 kg
Weight with stand	90 kg	63.5 kg	46 kg	37 kg
Swivel Angle	—	—	±10°	±15°
Operating Temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Setanta Sports

** Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home.

Plasma Television - Full HD

MODEL	TH-46PZ85B	TH-42PZ85B	TH-50PZ81B	TH-46PZ81B
TUNER				
Tuner Integrated	Y	Y	Y	Y
DVB Digital Tuner	Y	Y	Y [DVB/freesat]	Y [DVB/freesat]
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)	NICAM (FM)	NICAM (FM)
Teletext Reception	1500P Level 2.5, FASTEXT/LIST	1500P Level 2.5, FASTEXT/LIST	1500P Level 2.5, FASTEXT/LIST	1500P Level 2.5, FASTEXT/LIST
Receiving System	PAL - I, DVB	PAL - I, DVB	PAL - I, DVB, freesat	PAL - I, DVB, freesat
Receiving System [AV input]	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC
DISPLAY				
Screen Size	46" (116 cm) diagonal	42" (106 cm) diagonal	50" (127 cm) diagonal	46" (116 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide
Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel
Viewing Angle	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free
Response Speed	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)
Natural Vision Filter	Y	Y	Y	Y
Progressive Scan	Y	Y	Y	Y
Number of Pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels
Colour System	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC
Applicable PC signals	SXGA	SXGA	SXGA	SXGA
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/60p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/50p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
Contrast Ratio (in dark surroundings)	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1
Shades of Gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation
Intelligent Frame Creation	Y	Y	Y	Y
100 Hz Double Scan	Y	Y	Y	Y
24p Real Cinema	Y	Y	Y	Y
24p Playback	Y	Y	Y	Y
Digital Cinema Colour	—	—	—	—
Deep Colour (10-bit)	—	—	Y	Y
x.v.Colour	—	—	Y	Y
Digital Optimiser	Y	Y	Y	Y
3D Colour Management	Y	Y	Y	Y
Sub Pixel Control	Y	Y	Y	Y
Picture Overscan	Y	Y	Y	Y
Motion Pattern Noise Reduction	Y	Y	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	Y	Y
Video Noise Reduction	Y	Y	Y	Y
3D Comb Filter	Y	Y	Y	Y
Picture Mode	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco
SOUND				
Speaker System	—	—	—	—
Speakers	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)
Audio Output	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD
Sound Mode	Music/Speech	Music/Speech	Music/Speech	Music/Speech
V-Audio	V-Audio Surround	V-Audio Surround	Y	Y
SRS TruSurround XT	—	—	—	—
BBE VIVA HD3D Sound	Y	Y	—	—
Dolby Digital	Y	Y	Y	Y
Ambience	Y	Y	Y	Y
TERMINALS				
CI (Common Interface)*	Y	Y	Y	Y
LAN Port	—	—	Y	Y
SD Memory Card Slot (SDHC Compatible)	Y	Y	Y (AVCHD playback)	Y (AVCHD playback)
HDMI Input	3 (1 side, 2 rear) [ver. 1.3 with x.v.Colour]	3 (1 side, 2 rear) [ver. 1.3 with x.v.Colour]	3 (1 front, 2 rear) [ver. 1.3 with Deep Colour & x.v.Colour]	3 (1 front, 2 rear) [ver. 1.3 with Deep Colour & x.v.Colour]
Composite Video Input	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)
S-Video Input	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)
PC Input	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)
Component Video Input	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)
Audio Input (for HDMI, PC, Component)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, side x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, side x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)
21-Pin Input/Output	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)
Monitor Out	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)
Audio Output	Headphone jack (1 side)	Headphone jack (1 side)	Headphone jack (1 front)	Headphone jack (1 front)
Digital Audio Output	Y	Y	Y	Y
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)
FEATURES				
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Screen Saver	Wobbling	Wobbling	Wobbling	Wobbling
Multi Window	PAT	PAT	PIP/PAP/PAT	PIP/PAP/PAT
Q-Link	Y	Y	Y	Y
Aspect Controls	Auto/16:9/14:9/Just4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just4:3/Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English	English	English
Hold	Y	Y	Y	Y
Off Timer	15/30/45/60/75/90 min	15/30/45/60/75/90 min	15/30/45/60/75/90 min	15/30/45/60/75/90 min
Child Lock	Y	Y	Y	Y
GENERAL				
Power Save Mode	Y	Y	Y	Y
Power Supply	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz
Power Consumption (Rated)	470 W	385 W	TBC	TBC
(Assumptive Actual Use)**	387 Wh	324 Wh	TBC	TBC
(Standby)	0.4 W	0.4 W	TBC	TBC
Dimensions W/O stand (W x H x D)	1,168 x 737 x 93 mm (Depth 79 mm: exclusive of protruding portion)	1,064 x 674 x 92 mm (Depth 79 mm: exclusive of protruding portion)	1,244 x 790 x 110 mm	1,158 x 747 x 110 mm
Dimensions with stand (W x H x D)	1,168 x 792 x 387 mm	1,064 x 723 x 327 mm	1,244 x 844 x 387 mm	1,158 x 800 x 387 mm
Weight W/O stand	35 kg	30 kg	38 kg	35 kg
Weight with stand	39 kg	34 kg	43 kg	40 kg
Swivel Angle	±10°	±15°	±10°	±10°
Operating Temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Setanta Sports

** Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home. FREESAT and the FREESAT logo are trade marks of Freesat (UK) Ltd and are used under licence.

Plasma Television - Full HD

MODEL	TH-42PZ81B	TH-50PZ80B	TH-46PZ80B	TH-42PZ80B
TUNER				
Tuner Integrated	Y	Y	Y	Y
DVB Digital Tuner	Y (DVB/freesat)	Y	Y	Y
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)	NICAM (FM)	NICAM (FM)
Teletext Reception	1500P Level 2.5, FASTEXT/LIST	1500P Level 2.5, FASTEXT/LIST	1500P Level 2.5, FASTEXT/LIST	1500P Level 2.5, FASTEXT/LIST
Receiving System	PAL -I, DVB, freesat	PAL -I, DVB	PAL -I, DVB	PAL -I, DVB
Receiving System (AV input)	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC
DISPLAY				
Screen Size	42" (106 cm) diagonal	50" (127 cm) diagonal	46" (116 cm) diagonal	42" (106 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide
Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel
Viewing Angle	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free
Response Speed	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)
Natural Vision Filter	Y	Y	Y	Y
Progressive Scan	Y	Y	Y	Y
Number of Pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels
Colour System	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC
Applicable PC signals	SXGA	SXGA	SXGA	SXGA
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/60p, 750 (720)/60i, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
Contrast Ratio (in dark surroundings)	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1	Native: 30,000:1; Dynamic: 1,000,000:1
Shades of Gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation	5,120 equivalent steps of gradation
Intelligent Frame Creation	Y	—	—	—
100 Hz Double Scan	Y	Y	Y	Y
24p Real Cinema	Y	—	—	—
24p Playback	Y	Y	Y	Y
Digital Cinema Colour	—	—	—	—
Deep Colour (10-bit)	Y	—	—	—
x.v.Colour	Y	Y	Y	Y
Digital Optimiser	Y	Y	Y	Y
3D Colour Management	Y	Y	Y	Y
Sub Pixel Control	Y	Y	Y	Y
Picture Overscan	Y	Y	Y	Y
Motion Pattern Noise Reduction	Y	Y	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	Y	Y
Video Noise Reduction	Y	Y	Y	Y
3D Comb Filter	Y	Y	Y	Y
Picture Mode	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco
SOUND				
Speaker System	—	—	—	—
Speakers	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)
Audio Output	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD
Sound Mode	Music/Speech	Music/Speech	Music/Speech	Music/Speech
V-Audio	Y	Y	Y	Y
SRS TruSurround XT	—	—	—	—
BBE VIVA HD3D Sound	—	—	—	—
Dolby Digital	Y	—	—	—
Ambience	Y	Y	Y	Y
TERMINALS				
CI (Common Interface)*	Y	Y	Y	Y
LAN Port	Y	—	—	—
SD Memory Card Slot (SDHC Compatible)	Y (AVCHD playback)	Y	Y	Y
HDMI Input	3 (1 front, 2 rear) [ver. 1.3 with Deep Colour & x.v.Colour]	3 (1 front, 2 rear) [ver. 1.3 with x.v.Colour]	3 (1 front, 2 rear) [ver. 1.3 with x.v.Colour]	3 (1 front, 2 rear) [ver. 1.3 with x.v.Colour]
Composite Video Input	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)
S-Video Input	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)
PC Input	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)
Component Video Input	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)	RCA phono type x 3 [Y, PB, PR] (rear)
Audio Input (for HDMI, PC, Component)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)	RCA phono type connectors (L, R) x 2 sets (rear x 1 set, front x 1 set)
21-Pin Input/Output	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)	AV1: AV In/Out, RGB In, O-Link (rear) AV2: AV In/Out, S-Video In, RGB In, O-Link (rear)
Monitor Out	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)
Audio Output	Headphone jack (1 front)	Headphone jack (1 front)	Headphone jack (1 front)	Headphone jack (1 front)
Digital Audio Output	Y	—	—	—
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)
FEATURES				
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Screen Saver	Wobbling	Wobbling	Wobbling	Wobbling
Multi Window	PIP/PAP/PAT	PAT	PAT	PAT
Q-Link	Y	Y	Y	Y
Aspect Controls	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English	English	English
Hold	Y	Y	Y	Y
Off Timer	15/30/45/60/75/90 min	15/30/45/60/75/90 min	15/30/45/60/75/90 min	15/30/45/60/75/90 min
Child Lock	Y	Y	Y	Y
GENERAL				
Power Save Mode	Y	Y	Y	Y
Power Supply	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz
Power Consumption (Rated)	TBC	495 W	470 W	385 W
(Assumptive Actual Use)**	TBC	450 Wh	387 Wh	324 Wh
(Standby)	TBC	0.4 W	0.4 W	0.4 W
Dimensions W/O stand (W x H x D)	1,048 x 679 x 110 mm	1,244 x 790 x 99.7 mm	1,158 x 747 x 99.7 mm	1,048 x 679 x 99.7 mm
Dimensions with stand (W x H x D)	1,048 x 727 x 327 mm	1,244 x 844 x 387 mm	1,158 x 800 x 387 mm	1,048 x 727 x 327 mm
Weight W/O stand	30 kg	38 kg	35 kg	30 kg
Weight with stand	34 kg	43 kg	40 kg	34 kg
Swivel Angle	±15°	±10°	±10°	±15°
Operating Temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Setanta Sports

** Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home. FREESAT and the FREESAT logo are trade marks of Freesat (UK) Ltd and are used under licence.

Plasma Television - Full HD

Plasma Television - HD Ready

MODEL	TH-46P28B	TH-42P28B	TH-42PX80B	TH-37PX80B
TUNER				
Tuner Integrated	Y	Y	Y	Y
DVB Digital Tuner	Y	Y	Y	Y
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)	NICAM (FM)	NICAM (FM)
Teletext Reception	500P Level 2.5, FASTEXT/LIST	500P Level 2.5, FASTEXT/LIST	1000P Level 2.5, FASTEXT/LIST	1000P Level 2.5, FASTEXT/LIST
Receiving System	PAL - I, DVB	PAL - I, DVB	PAL - I, DVB	PAL - I, DVB
Receiving System (AV input)	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC
DISPLAY				
Screen Size	46" (116 cm) diagonal	42" (106 cm) diagonal	42" (106 cm) diagonal	37" (94 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide
Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive Full-HD Plasma Display Panel	G11 Progressive HD Plasma Display Panel	G11 Progressive HD Plasma Display Panel
Viewing Angle	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free
Response Speed	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)
Natural Vision Filter	—	—	Y	Y
Progressive Scan	Y	Y	Y	Y
Number of Pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	786,432 (1,024 x 768) pixels	737,280 (1,024 x 720) pixels
Colour System	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC
Applicable PC signals	—	—	SVGA (XGA compressed)	SVGA (XGA compressed)
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
Contrast Ratio (in dark surroundings)	Native: 20,000:1	Native: 20,000:1	Native: 15,000:1	Native: 15,000:1
Shades of Gradation	4,096 equivalent steps of gradation	4,096 equivalent steps of gradation	4,096 equivalent steps of gradation	4,096 equivalent steps of gradation
Intelligent Frame Creation	—	—	—	—
100 Hz Double Scan	Y	Y	Y	Y
24p Real Cinema	—	—	—	—
24p Playback	Y	Y	Y	Y
Digital Cinema Colour	—	—	—	—
Deep Colour (10-bit)	—	—	—	—
x.v.Colour	—	—	—	—
Digital Optimiser	Y	Y	Y	Y
3D Colour Management	Y	Y	Y	Y
Sub Pixel Control	Y	Y	Y	Y
Picture Overscan	Y	Y	Y	Y
Motion Pattern Noise Reduction	Y	Y	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	Y	Y
Video Noise Reduction	Y	Y	Y	Y
3D Comb Filter	Y	Y	Y	Y
Picture Mode	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco
SOUND				
Speaker System	—	—	—	—
Speakers	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)
Audio Output	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD
Sound Mode	Music/Speech	Music/Speech	Music/Speech	Music/Speech
V-Audio	—	—	—	—
SRS TruSurround XT	—	—	—	—
BBE VIVA HD3D Sound	—	—	—	—
Dolby Digital	—	—	—	—
Ambience	Y	Y	Y	Y
TERMINALS				
CI (Common Interface)*	Y	Y	Y	Y
SD Memory Card Slot (SDHC Compatible)	—	—	Y	Y
HDMI Input	2 (rear)	2 (rear)	3 (rear)	3 (rear)
Composite Video Input	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)
S-Video Input	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)
PC Input	—	—	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)
Component Video Input	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)
Audio Input (for HDMI, PC, Component)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)
21-Pin Input/Output	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)
Monitor Out	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)
Audio Output	Headphone jack (1 front)	Headphone jack (1 front)	Headphone jack (1 front)	Headphone jack (1 front)
Digital Audio Output	—	—	—	—
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)
FEATURES				
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Screen Saver	Wobbling	Wobbling	Wobbling	Wobbling
Multi Window	PAT	PAT	PAT	PAT
Q-Link	Y	Y	Y	Y
Aspect Controls	Auto/16.9/14.9/Just/4.3/Zoom1/Zoom2/Zoom3	Auto/16.9/14.9/Just/4.3/Zoom1/Zoom2/Zoom3	Auto/16.9/14.9/Just/4.3/Zoom1/Zoom2/Zoom3	Auto/16.9/14.9/Just/4.3/Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English	English	English
Hold	Y	Y	Y	Y
Off Timer	15/30/45/60/75/90 min	15/30/45/60/75/90 min	15/30/45/60/75/90 min	15/30/45/60/75/90 min
Child Lock	Y	Y	Y	Y
GENERAL				
Power Save Mode	Y	Y	Y	Y
Power Supply	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz
Power Consumption (Rated)	470 W	385 W	255 W	235 W
(Assumptive Actual Use)**	387 Wh	324 Wh	215 Wh	189 Wh
(Standby)	0.4 W	0.4 W	0.7 W	0.7 W
Dimensions W/O stand (W x H x D)	1,158 x 747 x 95 mm	1,048 x 679 x 95 mm	1,020 x 679 x 95 mm	917 x 616.5 x 95 mm
Dimensions with stand (W x H x D)	1,158 x 800 x 387 mm	1,048 x 727 x 327 mm	1,020 x 727 x 327 mm	917 x 665 x 327 mm
Weight W/O stand	35 kg	30 kg	26 kg	22.5 kg
Weight with stand	37 kg	32 kg	28 kg	24.5 kg
Swivel Angle	—	—	—	—
Operating Temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Setanta Sports

** Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home.

Plasma Television - HD Ready

MODEL	TH-50PX8B	TH-42PX8B	TH-37PX8B
TUNER			
Tuner Integrated	Y	Y	Y
DVB Digital Tuner	Y	Y	Y
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)	NICAM (FM)
Teletext Reception	500P Level 2.5, FASTEXT/LIST	500P Level 2.5, FASTEXT/LIST	500P Level 2.5, FASTEXT/LIST
Receiving System	PAL - I, DVB	PAL - I, DVB	PAL - I, DVB
Receiving System (AV input)	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC	PAL-525/60, SECAM, NTSC, M-NTSC
DISPLAY			
Screen Size	50" (127 cm) diagonal	42" (106 cm) diagonal	37" (94 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide
Panel	G11 Progressive HD Plasma Display Panel	G11 Progressive HD Plasma Display Panel	G11 Progressive HD Plasma Display Panel
Viewing Angle	Viewing Angle Free	Viewing Angle Free	Viewing Angle Free
Response Speed	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)	0.001 msec. (Time of discharge after the drive pulse signal of the panel is sent.)
Natural Vision Filter	—	—	—
Progressive Scan	Y	Y	Y
Number of Pixels	1,049,088 (1,366 x 768) pixels	786,432 (1,024 x 768) pixels	737,280 (1,024 x 720) pixels
Colour System	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC	NTSC/PAL/PAL 60Hz/SECAM/M-NTSC
Applicable PC signals	—	—	—
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
Contrast Ratio (in dark surroundings)	Native: 10,000:1	Native: 10,000:1	Native: 10,000:1
Shades of Gradation	3,072 equivalent steps of gradation	3,072 equivalent steps of gradation	3,072 equivalent steps of gradation
Intelligent Frame Creation	—	—	—
100 Hz Double Scan	Y	Y	Y
24p Real Cinema	—	—	—
24p Playback	Y	Y	Y
Digital Cinema Colour	—	—	—
Deep Colour (10-bit)	—	—	—
x.v.Colour	—	—	—
Digital Optimiser	Y	Y	Y
3D Colour Management	Y	Y	Y
Sub Pixel Control	Y	Y	Y
Picture Overscan	Y	Y	Y
Motion Pattern Noise Reduction	Y	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	—	—	—
Video Noise Reduction	Y	Y	Y
3D Comb Filter	Y	Y	Y
Picture Mode	Dynamic/Normal/Cinema	Dynamic/Normal/Cinema	Dynamic/Normal/Cinema
SOUND			
Speaker System	—	—	—
Speakers	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)	Full-Range (160 x 42 mm) x 2 (L,R)
Audio Output	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD
Sound Mode	Music/Speech	Music/Speech	Music/Speech
V-Audio	—	—	—
SRS TruSurround XT	—	—	—
BBE VIVA HD3D Sound	—	—	—
Dolby Digital	—	—	—
Ambience	Y	Y	Y
TERMINALS			
CI (Common Interface)*	Y	Y	Y
SD Memory Card Slot (SDHC Compatible)	—	—	—
HDMI Input	2 (rear)	2 (rear)	2 (rear)
Composite Video Input	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)	AV3: RCA phono type x 1 (front)
S-Video Input	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)	AV3: Mini DIN 4-pin (front)
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)	AV3: RCA phono type connectors (L, R) (1 set, front)
PC Input	—	—	—
Component Video Input	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)
Audio Input (for HDMI, PC, Component)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)
21-Pin Input/Output	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)
Monitor Out	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)	RCA phono type connectors (L, R) (1 set rear)
Audio Output	Headphone jack (1 front)	Headphone jack (1 front)	Headphone jack (1 front)
Digital Audio Output	—	—	—
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)
FEATURES			
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Screen Saver	Wobbling	Wobbling	Wobbling
Multi Window	PAT	PAT	PAT
Q-Link	Y	Y	Y
Aspect Controls	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3	Auto/16:9/14:9/Just/4:3/Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English	English
Hold	Y	Y	Y
Off Timer	15/30/45/60/75/90 min	15/30/45/60/75/90 min	15/30/45/60/75/90 min
Child Lock	Y	Y	Y
GENERAL			
Power Save Mode	Y	Y	Y
Power Supply	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz
Power Consumption (Rated)	355 W	255 W	235 W
(Assumptive Actual Use)**	298 Wh	215 Wh	189 Wh
(Standby)	0.5 W	0.7 W	0.7 W
Dimensions W/O stand (W x H x D)	1,210 x 790.5 x 92.5 mm	1,020 x 679 x 92.5 mm	917 x 616.5 x 92.5 mm
Dimensions with stand (W x H x D)	1,210 x 844 x 387 mm	1,020 x 727 x 327 mm	917 x 665 x 327 mm
Weight W/O stand	35 kg	25.5 kg	22 kg
Weight with stand	37 kg	27.5 kg	24 kg
Swivel Angle	—	—	—
Operating Temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Setanta Sports

** Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home.

LCD Television - Full HD

MODEL	TX-37LZD81	TX-32LZD81
TV TUNER		
Tuner Integrated	Y	Y
DVB Digital Tuner	Y (DVB/FreeSat)	Y (DVB/FreeSat)
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)
Teletext Reception	1500P TOP/FASTEXT Level 2.5	1500P TOP/FASTEXT Level 2.5
Receiving System	PAL -I, DVB, FreeSat	PAL -I, DVB, FreeSat
Receiving System (AV input)	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC
DISPLAY		
Screen Size	37" (94 cm) diagonal	32" (80 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide
Panel	IPS-alpha Full-HD LCD Panel	IPS-alpha Full-HD LCD Panel
Clear Panel	—	—
Viewing Angle	178 degree	178 degree
Contrast (Dynamic)	10,000:1	10,000:1
Progressive Scan	Y	Y
Number of Pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels
Applicable PC signals	XGA (SXGA compressed)	XGA (SXGA compressed)
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
100 Hz Motion Picture Pro	—	—
Motion Focus Technology	—	—
Intelligent Scene Controller	Y	Y
24p Film	—	—
24p Playback	Y	Y
x.v.Colour	Y (Automatic change)	Y (Automatic change)
3D Colour Management	Y	Y
Sub Pixel Control	Y	Y
Picture Overscan	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	Y	Y
Video Noise Reduction	Y	Y
3D Comb Filter	Y	Y
Picture Mode	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco
SOUND		
Speaker System	Bottom Speaker	Bottom Speaker
Speakers	1-way, 2-speakers	1-way, 2-speakers
Audio Output	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD
Sound Mode	Music/Speech	Music/Speech
V-Audio	V-Audio Surround	V-Audio Surround
SRS TruSurround XT	—	—
BBE VIVA HD3D Sound	Y	Y
Dolby Digital	—	—
Ambience	Y	Y
TERMINALS		
CI (Common Interface)*	Y	Y
SD Memory Card Slot (SDHC Compatible)	Y	Y
HDMI Input	3 (2 rear, 1 side)	3 (2 rear, 1 side)
Composite Video Input	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)
S-Video Input	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)
PC Input	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)
Component Video Input	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)
Audio Input (HDMI1, PC, Component)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)
21-Pin Input/Output	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)
Audio Output	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)
Digital Audio Output	Y	Y
FEATURES		
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Multi Window	PAT	PAT
Q-Link	Y	Y
Aspect Controls	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English
Hold	Y	Y
Off Timer	Y	Y
Child Lock	Y	Y
GENERAL		
Power Supply	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz
Power Consumption (Rated)	190 W	150 W
(Assumptive Actual Use)**	150 W	120 W
(Standby)	0.3 W	0.3 W
Dimensions (W x H x D) (with TV stand)	943 x 648 x 295 mm	831 x 579 x 225 mm
Dimensions (W x H x D) (w/o TV stand)	943 x 606 x 108 mm	831 x 538 x 103 mm
Weight (with TV stand)	22.5 kg	18.0 kg
Swivel Angle	±15°	±15°
Tilt Angle	—	—
VESA Standard	Y	Y
Operating Temperature	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Top-Up TV

** Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home.

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LCD Television - Full HD

MODEL	TX-37LZD800	TX-37LZD85	TX-32LZD85	TX-37LZD80
TV TUNER				
Tuner Integrated	Y	Y	Y	Y
DVB Digital Tuner	Y	Y	Y	Y
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)	NICAM (FM)	NICAM (FM)
Teletext Reception	2000P TOP/FASTEXT Level 2.5	1500P TOP/FASTEXT Level 2.5	1500P TOP/FASTEXT Level 2.5	1500P TOP/FASTEXT Level 2.5
Receiving System	PAL -I, DVB	PAL -I, DVB	PAL -I, DVB	PAL -I, DVB
Receiving System (AV input)	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC
DISPLAY				
Screen Size	37" (94 cm) diagonal	37" (94 cm) diagonal	32" (80 cm) diagonal	37" (94 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide
Panel	IPS-alpha Full-HD LCD Panel	IPS-alpha Full-HD LCD Panel	IPS-alpha Full-HD LCD Panel	IPS-alpha Full-HD LCD Panel
Clear Panel	Y	—	—	—
Viewing Angle	178 degree	178 degree	178 degree	178 degree
Contrast (Dynamic)	10,000:1	10,000:1	10,000:1	10,000:1
Progressive Scan	Y	Y	Y	Y
Number of Pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels	2,073,600 (1,920 x 1,080) pixels
Applicable PC signals	XGA (SXGA compressed)	XGA (SXGA compressed)	XGA (SXGA compressed)	XGA (SXGA compressed)
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
100 Hz Motion Picture Pro	Y (Motion Picture Pro2)	Y (Motion Picture Pro2)	Y (Motion Picture Pro2)	—
Motion Focus Technology	Y	Y	Y	—
Intelligent Scene Controller	Y	Y	Y	Y
24p Film	Y	Y	Y	—
24p Playback	Y	Y	Y	Y
x.v.Colour	Y (Automatic change)	Y (Automatic change)	Y (Automatic change)	Y (Automatic change)
3D Colour Management	Y	Y	Y	Y
Sub Pixel Control	Y	Y	Y	Y
Picture Overscan	Y	Y	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	Y	Y
Video Noise Reduction	Y	Y	Y	Y
3D Comb Filter	Y	Y	Y	Y
Picture Mode	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco
SOUND				
Speaker System	Side Speaker (Smart Sound Speaker System)	Bottom Speaker	Bottom Speaker	Bottom Speaker
Speakers	Woofer (120 x 60 mm) x 2; Tweeter (23 x 100 mm) x 2	1-way, 2-speakers	1-way, 2-speakers	1-way, 2-speakers
Audio Output	20 W [(2.5 W + 7.5 W) x 2], 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD
Sound Mode	Music/Speech	Music/Speech	Music/Speech	Music/Speech
V-Audio	V-Audio Surround	V-Audio Surround	V-Audio Surround	V-Audio Surround
SRS TruSurround XT	Y	—	—	—
BBE VIVA HD3D Sound	—	Y	Y	Y
Dolby Digital	—	—	—	—
Ambience	Y	Y	Y	Y
TERMINALS				
CI (Common Interface)*	Y	Y	Y	Y
SD Memory Card Slot (SDHC Compatible)	Y	Y	Y	Y
HDMI Input	4 (3 rear, 1 side)	3 (2 rear, 1 side)	3 (2 rear, 1 side)	3 (2 rear, 1 side)
Composite Video Input	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)
S-Video Input	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)
PC Input	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)
Component Video Input	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)
Audio Input (HDMI1, PC, Component)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)
21-Pin Input/Output	AV1: AV In/Out, RGB In, 0-Link (rear) AV2: AV In/Out, S-Video In, RGB In, 0-Link (rear)	AV1: AV In/Out, RGB In, 0-Link (rear) AV2: AV In/Out, S-Video In, RGB In, 0-Link (rear)	AV1: AV In/Out, RGB In, 0-Link (rear) AV2: AV In/Out, S-Video In, RGB In, 0-Link (rear)	AV1: AV In/Out, RGB In, 0-Link (rear) AV2: AV In/Out, S-Video In, RGB In, 0-Link (rear)
Audio Output	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)
Digital Audio Output	Y	Y	Y	Y
FEATURES				
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Multi Window	PIP/PAP/PAT	PAT	PAT	PAT
Q-Link	Y	Y	Y	Y
Aspect Controls	Auto aspect/16:9/14:9/JUST/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English	English	English
Hold	Y	Y	Y	Y
Off Timer	Y	Y	Y	Y
Child Lock	Y	Y	Y	Y
GENERAL				
Power Supply	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50/60Hz
Power Consumption (Rated)	200 W	197 W	154 W	190 W
(Assumptive Actual Use)**	160 W	158 W	125 W	150 W
(Standby)	0.3 W	0.3 W	0.3 W	0.3 W
Dimensions (W x H x D) (with TV stand)	961 x 655 x 295 mm	943 x 648 x 295 mm	831 x 579 x 225 mm	943 x 648 x 295 mm
Dimensions (W x H x D) (w/o TV stand)	961 x 613 x 107 mm	943 x 606 x 108 mm	831 x 538 x 103 mm	943 x 606 x 108 mm
Weight (with TV stand)	23.5 kg	23.0 kg	18.0 kg	22.5 kg
Swivel Angle	±15°	±15°	±15°	±15°
Tilt Angle	—	—	—	—
VESA Standard	Y	Y	Y	Y
Operating Temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Top-Up TV

**Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home.

LCD Television - Full HD

LCD Television - HD Ready

MODEL	TX-32LZD80	TX-32LXD85	TX-32LXD80	TX-26LXD80
TV TUNER				
Tuner Integrated	Y	Y	Y	Y
DVB Digital Tuner	Y	Y	Y	Y
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)	NICAM (FM)	NICAM (FM)
Teletext Reception	1500P TOP/FASTEXT Level 2.5	1000P TOP/FASTEXT Level 2.5	1000P TOP/FASTEXT Level 2.5	1000P TOP/FASTEXT Level 2.5
Receiving System	PAL -I, DVB	PAL -I, DVB	PAL -I, DVB	PAL -I, DVB
Receiving System (AV input)	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC
DISPLAY				
Screen Size	32" (80 cm) diagonal	32" (80 cm) diagonal	32" (80 cm) diagonal	26" (66 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide	16 : 9 Wide
Panel	IPS-alpha Full-HD LCD Panel	IPS-alpha (WXGA) LCD Panel	IPS (WXGA) LCD Panel	WXGA LCD Panel
Clear Panel	—	—	—	—
Viewing Angle	178 degree	178 degree	178 degree	160 degree (Horizontal), 150 degree (Vertical)
Contrast (Dynamic)	10,000:1	10,000:1	8,000:1	8,000:1
Progressive Scan	Y	Y	Y	Y
Number of Pixels	2,073,600 (1,920 x 1,080) pixels	1,049,088 (1,366 x 768) pixels	1,049,088 (1,366 x 768) pixels	1,049,088 (1,366 x 768) pixels
Applicable PC signals	XGA (SXGA compressed)	XGA (SXGA compressed)	XGA (SXGA compressed)	XGA (SXGA compressed)
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
100 Hz Motion Picture Pro	—	Y	—	—
Motion Focus Technology	—	—	—	—
Intelligent Scene Controller	Y	Y	—	—
24p Film	—	—	—	—
24p Playback	Y	Y	Y	Y
x.v.Colour	Y (Automatic change)	—	—	—
3D Colour Management	Y	Y	Y	Y
Sub Pixel Control	Y	Y	Y	Y
Picture Overscan	Y	Y	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	Y	Y
Video Noise Reduction	Y	Y	Y	Y
3D Comb Filter	Y	Y	Y	Y
Picture Mode	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco
SOUND				
Speaker System	Bottom Speaker	Bottom Speaker	Bottom Speaker	Bottom Speaker
Speakers	1-way, 2-speakers	1-way, 2-speakers	1-way, 2-speakers	1-way, 2-speakers
Audio Output	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD
Sound Mode	Music/Speech	Music/Speech	Music/Speech	Music/Speech
V-Audio	V-Audio Surround	Y	Y	Y
SRS TruSurround XT	—	—	—	—
BBE VIVA HD3D Sound	Y	—	—	—
Dolby Digital	—	—	—	—
Ambience	Y	Y	Y	Y
TERMINALS				
CI (Common Interface)*	Y	Y	Y	Y
SD Memory Card Slot (SDHC Compatible)	Y	Y	Y	Y
HDMI Input	3 (2 rear, 1 side)	3 (2 rear, 1 side)	3 (2 rear, 1 side)	3 (2 rear, 1 side)
Composite Video Input	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)
S-Video Input	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)
PC Input	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)	Mini D-sub 15-pin x 1 (rear)
Component Video Input	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)
Audio Input (HDMI1, PC, Component)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)
21-Pin Input/Output	AV1: AV In/Out, RGB In, 0-Link (rear) AV2: AV In/Out, S-Video In, RGB In, 0-Link (rear)	AV1: AV In/Out, RGB In, 0-Link (rear) AV2: AV In/Out, S-Video In, RGB In, 0-Link (rear)	AV1: AV In/Out, RGB In, 0-Link (rear) AV2: AV In/Out, S-Video In, RGB In, 0-Link (rear)	AV1: AV In/Out, RGB In, 0-Link (rear) AV2: AV In/Out, S-Video In, RGB In, 0-Link (rear)
Audio Output	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)
Digital Audio Output	Y	—	—	—
FEATURES				
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Multi Window	PAT	PAT	PAT	PAT
Q-Link	Y	Y	Y	Y
Aspect Controls	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English	English	English
Hold	Y	Y	Y	Y
Off Timer	Y	Y	Y	Y
Child Lock	Y	Y	Y	Y
GENERAL				
Power Supply	AC 220 - 240 V, 50/60Hz	AC 220 - 240 V, 50 Hz	AC 220 - 240 V, 50 Hz	AC 220 - 240 V, 50 Hz
Power Consumption (Rated)	150 W	140 W	130 W	98 W
(Assumptive Actual Use)**	120 W	140 W	130 W	98 W
(Standby)	0.3 W	0.4 W	1 W	1 W
Dimensions (W x H x D) (with TV stand)	831 x 579 x 225 mm	820 x 572 x 250 mm	820 x 572 x 250 mm	700 x 489 x 204 mm
Dimensions (W x H x D) (w/o TV stand)	831 x 538 x 103 mm	820 x 534 x 119 mm	820 x 534 x 110 mm	700 x 452 x 110 mm
Weight (with TV stand)	18.0 kg	17 kg	17 kg	15 kg
Swivel Angle	±15°	±15°	—	—
Tilt Angle	—	—	—	—
VESA Standard	Y	Y	Y	Y
Operating Temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Top-Up TV

**Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home.

LCD Television - HD Ready

MODEL	TX-32LXD8	TX-26LXD8	TX-19LXD8
TV TUNER			
Tuner Integrated	Y	Y	Y
DVB Digital Tuner	Y	Y	Y
Tuning System	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner	PLL synthesizer 100-position auto-search tuner
CATV Compatibility	UK	UK	UK
Broadcast Stereo Reception	NICAM (FM)	NICAM (FM)	NICAM (FM)
Teletext Reception	1000P TOP/FASTEXT Level 2.5	1000P TOP/FASTEXT Level 2.5	1000P TOP/FASTEXT Level 2.5
Receiving System	PAL -I, DVB	PAL -I, DVB	PAL -I, DVB
Receiving System (AV input)	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC	PAL-60, NTSC, M-NTSC
DISPLAY			
Screen Size	32" (80 cm) diagonal	26" (66 cm) diagonal	19" (48 cm) diagonal
Screen Aspect	16 : 9 Wide	16 : 9 Wide	16 : 10 Wide
Panel	IPS (WXGA) LCD Panel	WXGA LCD Panel	TN Panel
Clear Panel	—	—	—
Viewing Angle	178 degree	160 degree (Horizontal), 150 degree (Vertical)	170 degree (Horizontal), 160 degree (Vertical)
Contrast (Dynamic)	8,000:1	8,000:1	5,000:1
Progressive Scan	Y	Y	Y
Number of Pixels	1,049,088 (1,366 x 768) pixels	1,049,088 (1,366 x 768) pixels	1,764,000 (1,600 x 1,050) pixels
Applicable PC signals	—	—	—
Applicable Scanning Format	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)	525 (480)/60i, 525 (480)/60p, 625 (576)/50i, 625 (576)/50p, 750 (720)/50p, 750 (720)/60p, 1125 (1080)/50i, 1125 (1080)/60i, 1125 (1080)/24p (HDMI only), 1125 (1080)/50p (HDMI only), 1125 (1080)/60p (HDMI only)
100 Hz Motion Picture Pro	—	—	—
Motion Focus Technology	—	—	—
Intelligent Scene Controller	—	—	Y
24p Film	—	—	—
24p Playback	Y	Y	Y
x.v.Colour	—	—	—
3D Colour Management	Y	Y	Y
Sub Pixel Control	Y	Y	Y
Picture Overscan	Y	Y	Y
C.A.T.S. (Contrast Automatic Tracking System)	Y	Y	Y
Video Noise Reduction	Y	Y	Y
3D Comb Filter	Y	Y	Y
Picture Mode	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco	Dynamic/Normal/Cinema/Eco
SOUND			
Speaker System	Bottom Speaker	Bottom Speaker	Bottom Speaker
Speakers	1-way, 2-speakers	1-way, 2-speakers	1-way, 2-speakers
Audio Output	20 W (10 W x 2), 10% THD	20 W (10 W x 2), 10% THD	6 W (3 W x 2), 10% THD
Sound Mode	Music/Speech	Music/Speech	Music/Speech
V-Audio	—	—	—
SRS TruSurround XT	—	—	—
BBE VIVA HD3D Sound	—	—	—
Dolby Digital	—	—	—
Ambience	Y	Y	Y
TERMINALS			
CI (Common Interface)*	Y	Y	Y
SD Memory Card Slot (SDHC Compatible)	—	—	Y
HDMI Input	2 (rear)	2 (rear)	2 (rear)
Composite Video Input	AV3: RCA phono type x 1 (side)	AV3: RCA phono type x 1 (side)	AV2: RCA phono type x 1 (side)
S-Video Input	AV3: Mini DIN 4-pin (side)	AV3: Mini DIN 4-pin (side)	—
Audio Input (for Video)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV3: RCA phono type connectors (L, R) (1 set, side)	AV2: RCA phono type connectors (L, R) (1 set, side)
PC Input	—	—	Y
Component Video Input	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)	RCA phono type x 3 (Y, PB, PR) (rear)
Audio Input (HDMI1, PC, Component)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)	RCA phono type connectors (L, R) (1 set, rear)
21-Pin Input/Output	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)	AV1: AV In/Out, RGB In, Q-Link (rear) AV2: AV In/Out, S-Video In, RGB In, Q-Link (rear)	AV1: AV In/Out, S-Video In, RGB In, Q-Link (rear)
Audio Output	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)	RCA phono type connectors (L, R) (1 set, rear), Headphone jack (1, side)
Digital Audio Output	—	—	—
FEATURES			
EPG	Y (Gemstar EPG)	Y (Gemstar EPG)	Y (Gemstar EPG)
VIERA Link	Y (HDAVI Control 3)	Y (HDAVI Control 3)	Y (HDAVI Control 3)
Multi Window	PAT	PAT	PAT
Q-Link	Y	Y	Y
Aspect Controls	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3	Auto aspect/16:9/14:9/4:3/4:3 FULL (HD signal only)/ Zoom1/Zoom2/Zoom3
On-Screen Display Languages	English	English	English
Hold	Y	Y	Y
Off Timer	Y	Y	Y
Child Lock	Y	Y	Y
GENERAL			
Power Supply	AC 220 - 240 V, 50 Hz	AC 220 - 240 V, 50 Hz	AC 220 - 240 V, 50/60Hz
Power Consumption (Rated)	130 W	98 W	57 W
(Assumptive Actual Use)**	130 W	98 W	52 W
(Standby)	1 W	1 W	0.5 W
Dimensions (W x H x D) (with TV stand)	820 x 572 x 250 mm	700 x 489 x 204 mm	514 x 401 x 197 mm
Dimensions (W x H x D) (w/o TV stand)	820 x 534 x 107.5 mm	700 x 452 x 107.5 mm	514 x 368 x 85 mm
Weight (with TV stand)	17 kg	15 kg	7.5 kg
Swivel Angle	—	—	—
Tilt Angle	—	—	Y
VESA Standard	Y	Y	Y
Operating Temperature	0°C - 35°C	0°C - 35°C	0°C - 35°C

* Common Interface Terminal to accommodate Conditional Access Module for additional Digital services i.e. Top-Up TV

**Assumptive Actual Use Power Consumption is measured by an original method which is based on the usual TV watching conditions at home.

LCD Projectors	
MODEL	PT-AX200E
Power supply	100-240 V AC, 50/60 Hz
LCD PANEL*1	
Panel size	0.7" (17.78 mm) diagonally
Aspect ratio	16:9 aspect ratio
Display method	Transparent LCD panel (x 3, R/G/B)
Pixels	921,600 (1280 x 720) x 3, total of 2,764,800 pixels
Lens	Manual zoom (2x)/Manual focus, F 1.9 - 3.1, f 21.7 mm - 43.1 mm
Lamp*2	220 W UHM™ lamp
Brightness	2,000 lumens*3
Contrast	6,000:1*3 (full on/full off)
Projection size	1,016-5,080 mm (40-200 inches) diagonally, 16:9 aspect ratio
Resolution	1280 x 720 pixels (1920 x 1080 pixels with compression)
Scanning frequency (RGB)	Horizontal: 30-70 kHz, Vertical: 50-87 Hz
YPBPR signal compatibility	525i (480i), 525p (480p), 625i (576i), 625p (576p), 750 (720)/50p, 750 (720)/60p, 1,125 (1,080)/24p, 1,125 (1,080)/50i, 1,125 (1,080)/50p, 1,125 (1,080)/60i, 1,125 (1,080)/60p
Optical axis shift*4	Horizontal ±25% and vertical ±63%
Keystone correction range	Vertical: approx. ±30°
Installation	Ceiling/desk, front/rear (menu selection)
TERMINALS	
S-VIDEO IN	Mini DIN 4-pin x 1
VIDEO IN	RCA pin x 1, 1.0 Vp-p, 75 ohms
PC (RGB) IN	D-sub HD 15-pin (female) x 1
COMPONENT IN	RCA pin (Y, PB/CB, PR/CR) x 1
HDMI IN	19-pin HDMI connector x 2 Ver 1.3
SERIAL	Mini DIN 8-pin x 1 (RS-232C based)
Dimensions*5 (W x H x D)	395 x 112 x 300 mm (15-17/32" x 4-13/32" x 11-25/32")
Weight	4.9 kg (10.8 lbs.)
Supplied accessories	Power cord, Wireless remote control unit, Batteries for remote control (UM-3 x 2)
OPTIONAL ACCESSORIES	
ET-LAX100	Replacement lamp unit
ET-PXZ00	Ceiling mount bracket
ET-ADSER	Serial adapter (DIN 8-pin/D-sub 9-pin)

- *1: The projector uses a type of liquid crystal panel that typically consists of millions of pixels. This panel is built with very high-precision technology designed to provide one of the finest possible images. Occasionally, a few pixels may remain turned on (bright) or turned off (dark). Please note that this is an intrinsic characteristic of the manufacturing technology that affects all products using LCD technology.
- *2: The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use. The length of time that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.
- *3: In Al mode, with dynamic iris on
- *4: Shift range is limited during simultaneous horizontal and vertical shifting.
- *5: Excluding protrusions

LCD Projectors	
MODEL	PT-AE3000E
Power supply	100-240 V AC, 50/60 Hz
Power consumption	240 W (Approx. 0.08 W (up to 220 V) in standby mode with fan stopped)
LCD panel*1	
Panel size	0.74" (17.78 mm) diagonally
Aspect ratio	16:9 aspect ratio
Display method	Transparent LCD panel (x 3, R/G/B)
Drive method	Active matrix
Pixels	2,073,600 (1,920 x 1,080) x 3, total of 6,220,800 pixels
Lens	Powered zoom (2x)/powered focus, F 1.9 - 3.2, f 22.4 mm-44.8 mm
Lamp*2	165 W UHM lamp
Brightness*3	1,600 lumens*4
Contrast*3	60,000:1*4 (full on/full off)
YPBPR signal compatibility	480i (525i), 480p (525p), 576i (625i), 576p (625p), 720 (750)/50p, 720 (750)/60p, 1,080 (1,125)/24p, 1,080 (1,125)/50i, 1,080 (1,125)/50p, 1,080 (1,125)/60i, 1,080 (1,125)/60p
Colour system	PAL, PAL-M, PAL-N, PAL 60, SECAM, NTSC, NTSC 4.43,
Optical axis shift*5	Horizontal ±40% and vertical ±100%
Keystone correction range	Vertical: approx. ±30°
Terminals	
HDMI IN	HDMI connector x 3
COMPUTER IN	D-sub HD 15-pin (female) x 1
COMPONENT IN	RCA pin (Y, PB/CB, PR/CR) x 2
S-VIDEO IN	Mini DIN 4-pin x 1
VIDEO IN	RCA pin x 1
SERIAL	D-sub 9-pin x 1 (RS-232C based)
Dimensions*6 (W x H x D)	460 x 130 x 300 mm (18-1/8" x 5-1/8" x 11-25/32")
Weight	7.3 kg (16.1 lbs.)
Operating environment	Temperature: 0°-40°C (32°-104°F), Humidity: 20%-80% (no condensation)
Supplied accessories	Power cord, Wireless remote control unit, Batteries for remote control (AA type x 2)
Optional accessories	
ET-LAE1000	Replacement lamp unit
ET-PKE2000	Ceiling mount bracket for high ceilings
ET-PKE1000S	Ceiling mount bracket for low ceilings
ET-PCZ000	Cable cover

- *1: The projector uses a type of liquid crystal panel that typically consists of millions of pixels. This panel is built with very high-precision technology designed to provide one of the finest possible images. Occasionally, a few pixels may remain turned on (bright) or turned off (dark). Please note that this is an intrinsic characteristic of the manufacturing technology that affects all products using LCD technology.
- *2: The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use. The length of time that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.
- *3: Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
- *4: In Al mode, with dynamic iris on.
- *5: Shift range is limited during simultaneous horizontal and vertical shifting.
- *6: Excluding protrusions

Blu-ray Disc™ Home Cinema Sound System (EB)	
MODEL	SC-BT100
FORMAT	
Playable Type	
BD-ROM	BD-Video • [BONUSVIEW(Final Standard Profile)]*1
BD-RE / BD-RE DL	BD-MV (BD-RE version3)/JPEG •
BD-R / BD-R DL	BD-MV (BD-R version2) •
DVD-RAM	DVD-VR / JPEG / AVCHD •
DVD-R*2/DVD-RW*2/	DVD Video •
DVD-R DL*2	DVD-VR •
	AVCHD •
+R*2/+R DL*2/+RW*2	Video / AVCHD •
DVD	DVD Video •
CD, CD-R/RW*3	CD-DA •
	MP3*4 • (CD-R/-RW only)
	JPEG • (CD-R/-RW only)
SD Memory Card (SDHC)	AVCHD / JPEG (HD) •
Television Signal System	PAL625/50, PAL525/60, NTSC
RECEIVER SECTION	
Power Output Home Theater Mode (RMS)	
Total Power	1000 W
Front	250W x 2 (1kHz, 6ohms, 10% THD)
Center	250W (1kHz, 6ohms, 10% THD)
Subwoofer	250W (100Hz, 6ohms, 10% THD)
Power Output Home Theater Mode (DIN)	
Total Power	600W
Front	150W x 2 (1kHz, 6ohms, 1% THD)
Center	150W (1kHz, 6ohms, 1% THD)
Subwoofer	150W (100Hz, 6ohms, 1% THD)
Digital Amplifier	•
Whisper-mode Surround	• (with optional surround speakers)
H.Bass	•
Surround Enhancer	• (with optional surround speakers)
Real Center Focus	•
EQ	• (4 preset)
Subwoofer Boost	•
Subwoofer Level Control	•
RDS	•
Digital Synthesizer Tuner	• [FM]
Remote Control	• (AV Remote Control)
BLU-RAY DISC SECTION	
Video Features	
PHL Reference Chroma Processor	•
P4HD (Pixel Precision Progressive Processing for HD)	•
1080/24p Playback	•
Deep Colour	•
Video D/A Converter	148.5 MHz/12bit
Digital Noise Reduction	•
HD i/p Conversion	•
Picture Mode	•
Picture Adjustment	•
Advanced Progressive Scan	•
Zoom Function (JPEG)	•
Audio Features	
Dolby Digital Decoder	• (Dolby TrueHD, Dolby Digital Plus, Dolby Digital)
Dolby Pro Logic IIx	• (with optional surround speakers)
Dolby Virtual Speaker	•
DTS Decoder	• (DTS-HD Master Audio, DTS-HD High Resolution Audio, DTS-ES, DTS 96/24, DTS)
DTS Neo:6	• (with optional surround speakers)
Audio D/A Converter	192kHz/24bit
Dynamic Range Compression	•
OTHER MEDIA SECTION	
Universal Dock for iPod*5	Integrated
On-Screen Display for iPod Music Menu	•
iPod Music Playback	•
iPod Video & Photo Playback*6	•
HD Movie & Picture Playback via SD Memory Card Slot	•
INPUT/OUTPUT	
HDMI Terminals	•
Video Out / S-Video Out	•
Component Video Out	•
Digital Input	• (optical)
Digital Output	• (optical)
Audio Input	• (AUX)
Phone Out	•
Wireless Terminal	•
VIERA Link	• (HDAVI Control 3)
Weight (kg) [Approx.]	4.1
Dimensions (W x H x D) (mm) [Approx.]	430 x 90 x 327 (without Wireless Rear Speaker Kit)
SPEAKER SYSTEM	
Wireless Rear	Ready
Front Speaker	
Configuration	2-way 3-speaker, Bass-reflex
Speaker Unit [Approx.]	6.5cm Woofer x 2, 6cm Tweeter (Bamboo Diaphragm)
Weight (kg) [Approx.]	1.7
Dimensions (W x H x D) (mm) [Approx.]	121 x 328 x 129
Center Speaker	
Configuration	2-way 3-speaker, Bass-reflex
Speaker Unit [Approx.]	6.5cm Woofer x 2, 6cm Tweeter (Bamboo Diaphragm)
Weight (kg) [Approx.]	1.6
Dimensions (W x H x D) (mm) [Approx.]	301 x 111 x 134
Subwoofer Speaker	
Configuration	1-way 1-speaker, Kelson type
Speaker Unit [Approx.]	25 cm Passive Radiator / 16cm Woofer
Weight (kg) [Approx.]	4.7
Dimensions (W x H x D) (mm) [Approx.]	181 x 361 x 315

*1: To enjoy iPod Video content, please connect your home cinema sound system with Composite cable to your TV. *2: Made for iPod. *3: This unit can play CD-DA format audio, CD-R and CD-RW due to the condition of the recording. *4: For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs. *5: Made for iPod. *6: BONUSVIEW™ is trademark of Blu-ray Disc Association. * Notes: Total harmonic distortion is measured by digital spectrum analyzer. Design and specifications are subject to change without notice.

Blu-ray Disc Player

MODEL	DMP-BD35 [EG/EB]	DMP-BD55 [EG]
FORMAT		
BD-ROM	BD-Live*1	•
BD-RE / BD-RE DL	BD-MV(BD-RE version3)	•
	BDAV (SESF)	•
	JPEG (HD)	•
BD-R *2/BD-R DL*2	BD-MV(BD-R version2)	•
	BDAV (SESF)	•
DVD-RAM	DVD-VR	•
	JPEG (HD)	•
	AVCHD	•
DVD-R*2/DVD-RW*2/ DVD-R DL*2	DVD Video	•
	DVD-VR	•
	AVCHD	•
	DivX®*3	•(DVD-R/-R DL)
+R*2/ +R DL*2/ +RW*2	DVD-VR	•
	AVCHD	•
DVD-ROM CD, CD-R/-RW*4	DVD Video	•
	CD-DA	•
	DivX®*3	•(CD-R/-RW)
	MP3*5	•(CD-R/-RW)
	JPEG (HD)	•(CD-R/-RW)
SD Memory Card	AVCHD	•
	JPEG (HD)	•
VIDEO		
PHL Reference Chroma Processor Plus		
P4HD (Pixel Precision Progressive Processing for HD)	Precise Pixel Generation	•
	16-Level Motion Detection with Pixel-Based Motion Adaptive	•
	Diagonal Processing	•
	3:2:2 Pull-Down Progressive Processing	•
	i/p Conversion for 1080p*6 Playback	•
	Up-Conversion to 1080p*6 Playback	•
	Video D/A Converter	148.5MHz/12bit
Progressive Scan	•	•
Digital Noise Reduction	•(3D-NR/ Integrated NR)	•(3D-NR/ Integrated NR)
1080/24p Playback	•*7	•*7
Deep Colour	•	•
x.v.Colour*8	•	•
Picture Mode	•*9	•*9
Picture Adjustment	•*10	•*10
NTSC Output Selectable	•	•
AUDIO		
Audio D/A Converter	192kHz/24bit	192kHz/24bit
Dolby Digital Plus	Decode and Bitstream Output*6	Decode and Bitstream Output*6
Dolby TrueHD	Decode and Bitstream Output*6	Decode and Bitstream Output*6
DTS-HD*11	Decode and Bitstream Output*6	Decode and Bitstream Output*6
96kHz Surround Re-Master *12	•(for All Formats)	•(for All Formats)
Advanced Surround (V.S.S.)	•	•
Night Surround Mode	•	•
7.1ch Analog Output	-	•
Dialogue Enhancer	•	•
Dynamic Range Compression	•	•
CONVENIENT		
VIERA Link (HDAVI Control 3) *13	•	•
Super High Speed Scan	•	•
Audio/JPEG Navigation Menu	•	•
INPUT / OUTPUT		
SD Memory Card Slot	•	•
Ethernet for Network	•(for BD-Live and Firmware Update)	•(for BD-Live and Firmware Update)
HDMI(Output)	Support features	HDMI™ (V.1.3a with Deep Colour , x.v.Colour*8, High Bit rate Audio)
		HDMI™ (V.1.3a with Deep Colour , x.v.Colour*8, High Bit rate Audio)
Component Video Out (Y, PB, PR)	•	•
Video Out	•	•
2ch Audio Out	•	•
Digital Audio Out	•(1 Optical)	•(1 Optical, 1 Coaxial)
SPECIFICATIONS		
Audio S/N	115dB	115dB
Dynamic Range	100dB	100dB
Power Source	AC 230-240V, 50Hz	AC 230-240V, 50Hz
Power Consumption (Approx.)	20W	21W
Weight (kg) (Approx.)	2.6	2.6
Dimensions (W x H x D) (mm) (including the projecting part) (Approx.)	430 x 49 x 249	430 x 55 x 249

*1 BD-ROM Profile 2. (BD Live feature includes BONUSVIEW functions.)

*2 Discs recorded and finalized on DVD video recorders/cameras.

*3 Official DivX® Certified product. Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license. DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain highly compressed video with high visual quality that maintains a relatively small file size.

*4 Playability may vary depending on the contents, discs and quality of the recording.

*5 For contents recorded on CD-R/RW for your personal use only.

*6 HDMI connection required.

*7 For BD-ROM/BD-R and DVD-Video via HDMI.

*8 This function is effective only when reproducing AVCHD data recorded with x.v.Colour technology. The function cannot be used with BD-ROM or DVD-ROM discs. HDMI connection is required. x.v.Colour is a registered trademark.

*9 Normal/ Soft/ Fine/ Cinema/ User

*10 Contrast, Brightness, Sharpness, Colour, Gamma Correction

*11 DTS-HD High Resolution Audio, DTS-HD Master Audio Essential.

*12 CD sampling is done at 88.2 kHz. DivX® data can be re-mastered both on DVD and CD whereas MP3 data only CD.

*13 Not all 2008 VIERA Link features are compatible with all 2006/2007 VIERA Link products.

* "BD-Live" and "BONUSVIEW" are trademark of Blu-ray Disc Association.

DVD Video Recorder

MODEL		DMR-EX98V	DMR-EX88	DMR-EX78
PLAYABLE DISCS	DVD	•	•	•
	DVD-RAM	•	•	•
	DVD-R1/DVD-R DL1/DVD-RW1	•	•	•
	DVD-Video	•	•	•
	DVD-VR	• DVD-RW only	• DVD-RW only	• DVD-RW only
	MP32	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL
	JPEG	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL
	DivX®3	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL
	+R1/ +R DL1/ +RW ¹	•	•	•
	CD1, CD-R1/CD-RW ⁴	•	•	•
RECORDABLE DISCS	DVD-RAM	• 2x Speed	• 2x Speed	• 2x Speed
	DVD-R	• 2-3x Speed	• 2-3x Speed	• 2-3x Speed
	DVD-R DL	• 2-5x Speed	• 2-5x Speed	• 2-5x Speed
	DVD-RW	• 1x Speed	• 1x Speed	• 1x Speed
	+R	• 1-4x Speed	• 1-4x Speed	• 1-4x Speed
	+R DL	• 1-8x Speed	• 1-8x Speed	• 1-8x Speed
	+RW	• 1-16x Speed	• 1-16x Speed	• 1-16x Speed
	DVD-R DL	• 2-4x Speed	• 2-4x Speed	• 2-4x Speed
	DVD-RW	• 2-8x Speed	• 2-8x Speed	• 2-8x Speed
	DVD-RW	• 1x Speed	• 1x Speed	• 1x Speed
RECORDING FORMAT	DVD-RAM	DVD Video Recording Format	DVD Video Recording Format	DVD Video Recording Format
	DVD-R, DVD-R DL, DVD-RW	DVD-Video Format8	DVD-Video Format8	DVD-Video Format8
	Built-in Hard Disk Capacity	250 GB*	400 GB*	250 GB*
	Hard Disk Drive	55 hours	89 hours	55 hours
	XP Mode	110 hours	178 hours	110 hours
	SP Mode	221 hours	357 hours	221 hours
	LP Mode	331 / 441 hours	534 / 712 hours	331 / 441 hours
	EP Mode5	1 hour	1 hour	1 hour
	4.7GB# Disc	2 hours	2 hours	2 hours
	8.5GB# DVD-R DL /+R DL Disc	4 hours	4 hours	4 hours
RECORDING TIME (APPROXIMATE)	XP Mode	6 / 8 hours	6 / 8 hours	6 / 8 hours
	SP Mode	1 hour 45 minutes	1 hour 45 minutes	1 hour 45 minutes
	LP Mode	3 hours 35 minutes	3 hours 35 minutes	3 hours 35 minutes
	EP Mode5	7 hours 10 minutes	7 hours 10 minutes	7 hours 10 minutes
	10 hours 45 minutes / 14 hours 20 minutes (DVD-R DL only)	10 hours 45 minutes / 14 hours 20 minutes (DVD-R DL only)	10 hours 45 minutes / 14 hours 20 minutes (DVD-R DL only)	10 hours 45 minutes / 14 hours 20 minutes (DVD-R DL only)
	Video System	PAL colour signal 625lines, 50fields NTSC colour signal 525lines, 60 fields	PAL colour signal 625 lines, 50 fields NTSC colour signal 525 lines, 60 fields	PAL colour signal 625 lines, 50 fields NTSC colour signal 525 lines, 60 fields
	Recording System	MPEG2 (Hybrid VBR)	MPEG2 (Hybrid VBR)	MPEG2 (Hybrid VBR)
	Input	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)
	S-Video In	AV2 (21 pin), AV3 (S terminal)	AV2 (21 pin), AV3 (S terminal)	AV2 (21 pin), AV3 (S terminal)
	RGB In	AV2 (21 pin) [PAL]	AV2 (21 pin) [PAL]	AV2 (21 pin) [PAL]
Output	AV1 / AV2 (21 pin), Video Out (pin jack)	AV1 / AV2 (21 pin), Video Out (pin jack)	AV1 / AV2 (21 pin), Video Out (pin jack)	
S-Video Out	AV1 (21 pin), S-Video Out (S terminal)	AV1 (21 pin), S-Video Out (S terminal)	AV1 (21 pin), S-Video Out (S terminal)	
RGB Out	AV1 (21 pin) [PAL]	AV1 (21 pin) [PAL]	AV1 (21 pin) [PAL]	
Component Video Output (Y, PB, PR)	•	•	•	
AUDIO	Recording System	Dolby Digital 2ch, Linear PCM (XP mode)	Dolby Digital 2ch, Linear PCM (XP mode)	Dolby Digital 2ch, Linear PCM (XP mode)
	Input	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)
	Output	AV1 / AV2 (21 pin), Audio Out (pin jack)	AV1 / AV2 (21 pin), Audio Out (pin jack)	AV1 / AV2 (21 pin), Audio Out (pin jack)
	Digital Audio Out	Optical terminal (PCM, Dolby Digital, DTS, MPEG)	Optical terminal (PCM, Dolby Digital, DTS, MPEG)	Optical terminal (PCM, Dolby Digital, DTS, MPEG)
VIDEO/AUDIO	DV Input	•	•	•
	HDMI Output : 576i, 576p, 720p, 1080i, 1080p	•	•	•
	VIERA Link	• (HDAVI Control 3)	• (HDAVI Control 3)	• (HDAVI Control 3)
TUNER	Tuner System	DVB-T	DVB-T	DVB-T
	Channel Coverage	[DVB-T] UHF: CH 21-68	[DVB-T] UHF: CH 21-68	[DVB-T] UHF: CH 21-68
	EPG	DVB-T	DVB-T	DVB-T
VHS	Playback Format	Hi-Fi, SOPB	-	-
	Operations	Repeat Play, x500 REW, x50 Search	-	-
	Rec. System	SP/LP/EP	-	-
USB TERMINAL	USB standard	USB2.0 High Speed	USB2.0 High Speed	USB2.0 Full Speed
	Format	FAT 16*, FAT 32* *USB mass storage class only	FAT 16*, FAT 32* *USB mass storage class only	FAT 16*, FAT 32* *USB mass storage class only
	DivX	300 Recognizable folders per USB on this unit (including the root folder)	300 Recognizable folders per USB on this unit (including the root folder)	300 Recognizable folders per USB on this unit (including the root folder)
	DivX	200 Recognizable DivX files per USB on this unit ⁹	200 Recognizable DivX files per USB on this unit ⁹	200 Recognizable DivX files per USB on this unit ⁹
	Still Picture	JPEG	JPEG	JPEG
	[JPEG]	Between 34 x 34 and 6,144 x 4,096 pixels Sub sampling 4:2:2 or 4:2:0 This unit is not compatible with MOTION JPEG.	Between 34 x 34 and 6,144 x 4,096 pixels Sub sampling 4:2:2 or 4:2:0 This unit is not compatible with MOTION JPEG.	Between 34 x 34 and 6,144 x 4,096 pixels Sub sampling 4:2:2 or 4:2:0 This unit is not compatible with MOTION JPEG.
	MP3	32kbps-320kbps	32kbps-320kbps	32kbps-320kbps
	JPEG, MP3	16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz This unit is compatible with ID3 tags.	16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz This unit is compatible with ID3 tags.	16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz This unit is compatible with ID3 tags.
	Common Items	300 Recognizable folders per USB on this unit (including the root folder)	300 Recognizable folders per USB on this unit (including the root folder)	300 Recognizable folders per USB on this unit (including the root folder)
	Common Items	3000 Recognizable MP3 files per USB on this unit ⁹	3000 Recognizable MP3 files per USB on this unit ⁹	3000 Recognizable MP3 files per USB on this unit ⁹
SD CARD SLOT	SD Memory Card Slot	•	•	•
	Compatible Media ⁴	SD Memory Card*, SDHC Memory Card, Multi Media Card *includes miniSD™ Cards (A miniSD™ Adapter needs to be inserted) / Includes microSD™ Cards (A microSD™ Adapter needs to be inserted)	SD Memory Card*, SDHC Memory Card, Multi Media Card *includes miniSD™ Cards (A miniSD™ Adapter needs to be inserted) / Includes microSD™ Cards (A microSD™ Adapter needs to be inserted)	SD Memory Card*, SDHC Memory Card, Multi Media Card *includes miniSD™ Cards (A miniSD™ Adapter needs to be inserted) / Includes microSD™ Cards (A microSD™ Adapter needs to be inserted)
	Format	FAT12, FAT16† (SD Memory Card/ Multi MediaCard) FAT32‡ (SDHC Memory Card)	FAT12, FAT16† (SD Memory Card/ Multi MediaCard) FAT32‡ (SDHC Memory Card)	FAT12, FAT16† (SD Memory Card/ Multi MediaCard) FAT32‡ (SDHC Memory Card)
	Still Picture [JPEG]	Format JPEG conforming DCF (Design rule for Camera File system)	Format JPEG conforming DCF (Design rule for Camera File system)	Format JPEG conforming DCF (Design rule for Camera File system)
	Compatible Pixels	Between 34 x 34 and 6,144 x 4,096 pixels Sub sampling; 4:2:2 or 4:2:0	Between 34 x 34 and 6,144 x 4,096 pixels Sub sampling; 4:2:2 or 4:2:0	Between 34 x 34 and 6,144 x 4,096 pixels Sub sampling; 4:2:2 or 4:2:0
	SD Video [MPEG2]	Codec MPEG2 (SD-Video Entertainment Video Profile)	Codec MPEG2 (SD-Video Entertainment Video Profile)	Codec MPEG2 (SD-Video Entertainment Video Profile)
	File Format	-	-	-
	Power Supply	AC 220-240V, 50Hz	AC 220-240V, 50Hz	AC 220-240V, 50Hz
	Power Consumption (Approximate)	Normal Use SD-Video format conforming Video Recording conversion and transfer is possible from card to HDD or DVD-RAM disc. After Video Recording conversion and transfer to HDD or DVD-RAM disc, the playback is possible.	Normal Use SD-Video format conforming Video Recording conversion and transfer is possible from card to HDD or DVD-RAM disc. After Video Recording conversion and transfer to HDD or DVD-RAM disc, the playback is possible.	Normal Use SD-Video format conforming Video Recording conversion and transfer is possible from card to HDD or DVD-RAM disc. After Video Recording conversion and transfer to HDD or DVD-RAM disc, the playback is possible.
	Power Save Mode	Approx. 2 W	Approx. 2 W	Approx. 2 W
Dimensions (W x H x D)mm	430 x 84 x 350	430 x 59 x 326	430 x 59 x 326	
Weight (Approximate)	6.3 kg	4.2 kg	4.2 kg	
Operating Temperature	5 - 40 °C	5 - 40 °C	5 - 40 °C	
Operating Humidity Range	10-80 %RH (no condensation)	10-80 %RH (no condensation)	10-80 %RH (no condensation)	

1 Discs recorded and finalised on recording devices. 2 For comments recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs. 3 Official DVD® Certified product. Plays all versions of DVD-Video (including DVD-Video) with standard playback of DivX® media files. DivX®, DivX® Certified, and associated logos are trademarks of DivX®, Inc. and are used under license. About DivX®: DivX® is a popular media technology created by DivX®, Inc. DivX® media files contain high quality compressed video with high visual quality that maintains a relatively small file size. 4 This unit can play CD-iX format audio CD-R and CD-RW. It may not be able to play some CD-iX format audio CD-R and CD-RW due to the condition of the recording. 5 In EP mode, you can select either 6 hours or 8 hours of recording. The sound quality in 6-hour EP mode is higher quality than in 8-hour EP mode. 6 DMR-EX98V/EX88 are compatible with SD Memory Card / miniSD™ Cards / microSD™ Cards (A miniSD™ Adapter needs to be inserted). These units are compatible with DCF based, still picture [JPEG] files recorded using a digital camera. These units are not compatible with sound, moving pictures or with types of still pictures other than JPEG. When saving still pictures on Hard Disk Drive, it is recommended that you copy them to the SD Memory Card or DVD-RAM also. 7 Long file name is unsupported. 8 It is compatible to a DVD-Video format after finalised. 9 Total number of recognizable file including MP3, JPEG, DivX and other type of files is 4000. # 1GB = one billion bytes. Usable capacity will be less. Specifications are subject to change without notice. Weight and dimensions are approximate.

DVD Video Recorder

MODEL		DMR-EX768	DMR-EZ48V	DMR-EZ28		
PLAYABLE DISCS	DVD	•	•	•		
	DVD-RAM	•	•	•		
		JPEG	-	-		
	DVD-R1/DVD-R DL1/DVD-RW1	DVD-Video	•	•		
		DVD-VR	• DVD-RW only	• DVD-RW only		
		MP32	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL		
		JPEG	• DVD-R, DVD-R DL	• DVD-R, DVD-R DL		
		DivX®3	-	-		
	+R1/+R DL1/+RW1	Video	•	•		
	CD1, CD-R1/CD-RW1 ⁴	CD-DA	•	•		
	Video CD	•	•			
	SVCD	•	•			
	MP32	•	•			
	JPEG	•	•			
	DivX®3	-	-			
RECORDABLE DISCS	DVD-RAM	Ver.2.0 • 2x Speed Ver.2.1 • 2-3x Speed Ver.2.2 • 2-5x Speed	• 2x Speed • 2-3x Speed • 2-5x Speed	• 2x Speed • 2-3x Speed • 2-5x Speed		
	DVD-R	Ver.2.0 • 1x Speed Ver.2.0 • 1-4x Speed Ver.2.0 • 1-8x Speed Ver.2.1 • 1-16x Speed	• 1x Speed • 1-4x Speed • 1-8x Speed • 1-16x Speed	• 1x Speed • 1-4x Speed • 1-8x Speed • 1-16x Speed		
	DVD-R DL	Ver.3.0 • 2-4x Speed Ver.3.0 • 2-8x Speed	• 2-4x Speed • 2-8x Speed	• 2-4x Speed • 2-8x Speed		
	DVD-RW	Ver.1.1 • 1x Speed Ver.1.1 • 1-2x Speed Ver.1.2 • 2-4x Speed Ver.1.2 • 2-6x Speed	• 1x Speed • 1-2x Speed • 2-4x Speed • 2-6x Speed	• 1x Speed • 1-2x Speed • 2-4x Speed • 2-6x Speed		
	+R	Ver.1.0 • 2.4x Speed Ver.1.1 • 2.4-4x Speed Ver.1.2 • 2.4-8x Speed Ver.1.3 • 2.4-16x Speed	• 2.4x Speed • 2.4-4x Speed • 2.4-8x Speed • 2.4-16x Speed	• 2.4x Speed • 2.4-4x Speed • 2.4-8x Speed • 2.4-16x Speed		
	+R DL	Ver.1.0 • 2.4x Speed Ver.1.1 • 2.4-8x Speed Ver.1.1 • 2.4x Speed Ver.1.2 • 2.4-4x Speed	• 2.4x Speed • 2.4-8x Speed • 2.4x Speed • 2.4-4x Speed	• 2.4x Speed • 2.4-8x Speed • 2.4x Speed • 2.4-4x Speed		
	+RW	Ver.1.1 • 2.4x Speed Ver.1.2 • 2.4-4x Speed	• 2.4x Speed • 2.4-4x Speed	• 2.4x Speed • 2.4-4x Speed		
	RECORDING FORMAT	DVD-RAM	DVD Video Recording Format	DVD Video Recording Format	DVD Video Recording Format	
	DVD-R, DVD-R DL, DVD-RW	DVD-Video Format8	DVD-Video Format8	DVD-Video Format8		
	Built-in Hard Disk Capacity	160 GB#	-	-		
	RECORDING TIME (APPROXIMATE)	Hard Disk Drive	XP Mode	35 hours	-	
			SP Mode	70 hours	-	
			LP Mode	140 hours	-	
			EP Mode5	209 / 279 hours	-	
			4.7GB# Disc	XP Mode 1 hour SP Mode 2 hours LP Mode 4 hours EP Mode5 6 / 8 hours	1 hour 2 hours 4 hours 6 / 8 hours	1 hour 2 hours 4 hours 6 / 8 hours
		8.5GB# DVD-R DL /+R DL Disc	XP Mode	1 hour 45 minutes	55 minutes (First Layer) / 50 minutes (Second Layer)	55 minutes (First Layer) / 50 minutes (Second Layer)
			SP Mode	3 hours 35 minutes	1 hour 50 minutes (First Layer) / 1 hour 40 minutes (Second Layer)	1 hour 50 minutes (First Layer) / 1 hour 40 minutes (Second Layer)
			LP Mode	7 hours 10 minutes	3 hours 40 minutes (First Layer) / 3 hours 20 minutes (Second Layer)	3 hours 40 minutes (First Layer) / 3 hours 20 minutes (Second Layer)
			EP Mode5	10 hours 45 minutes / 14 hours 20 minutes (DVD-R DL only)	5 hours 30 minutes (First Layer) / 5 hours 15 minutes (Second Layer) 7 hours 25 minutes (First Layer) / 6 hours 50 minutes (Second Layer)	5 hours 30 minutes (First Layer) / 5 hours 15 minutes (Second Layer) 7 hours 25 minutes (First Layer) / 6 hours 50 minutes (Second Layer)
			VIDEO	Video System	PAL colour signal 625 lines, 50 fields NTSC colour signal 525 lines, 60 fields	PAL colour signal 625 lines, 50 fields NTSC colour signal 525 lines, 60 fields
Recording System	MPEG2 (Hybrid VBR)	MPEG2 (Hybrid VBR)	MPEG2 (Hybrid VBR)			
Input	Video In	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)		
	S-Video In	AV2 (21 pin), AV3 (S terminal)	AV2 (21 pin), AV3 (S terminal)	AV2 (21 pin), AV3 (S terminal)		
Output	RGB In	AV2 (21 pin) [PAL]	AV2 (21 pin) [PAL]	AV2 (21 pin) [PAL]		
	Video Out	AV1 / AV2 (21 pin), Video Out (pin jack)	AV1 / AV2 (21 pin), Video Out (pin jack)	AV1 / AV2 (21 pin), Video Out (pin jack)		
S-Video Out	AV1 (21 pin), S-Video Out (S terminal)	AV1 (21 pin), S-Video Out (S terminal)	AV1 (21 pin), S-Video Out (S terminal)			
RGB Out	AV1 (21 pin) [PAL]	AV1 (21 pin) [PAL]	AV1 (21 pin) [PAL]			
Component Video Output (Y, PB, PR)	•	•	•			
AUDIO	Recording System	Dolby Digital 2ch, Linear PCM (XP mode)	Dolby Digital 2ch	Dolby Digital 2ch		
	Input	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)	AV1 / AV2 (21 pin), AV3 (pin jack)		
	Output	AV1 / AV2 (21 pin), Audio Out (pin jack)	AV1 / AV2 (21 pin), Audio Out (pin jack)	AV1 / AV2 (21 pin), Audio Out (pin jack)		
Digital Audio Out	Optical terminal (PCM, Dolby Digital, DTS, MPEG)	Optical terminal (PCM, Dolby Digital, DTS, MPEG)	Optical terminal (PCM, Dolby Digital, DTS, MPEG)			
VIDEO/AUDIO	DV Input	•	•	•		
	HDMI Output : 576i, 576p, 720p, 1080i, 1080p	•	•	•		
VIERA Link	• (HDAVI Control 3)	• (HDAVI Control 3)	• (HDAVI Control 3)			
TUNER	Tuner System	DVB-T	DVB-T	DVB-T		
	Channel Coverage	[DVB-T] UHF: CH 21-68	[DVB-T] UHF: CH 21-68	[DVB-T] UHF: CH 21-68		
	EPG	DVB-T	DVB-T	DVB-T		
VHS	Playback Format	-	Hi-Fi, SQPB	-		
	Operations	-	Repeat Play, x500 REW, x50 Search	-		
REC. SYSTEM	Rec. System	-	SP/LP/EP	-		
	Rec. Mode Copying Way	-	One-touch 2-way Copying	-		
USB TERMINAL	USB standard	-	-	-		
	Format	-	-	-		
	DivX	Maximum number of folders	-	-	-	
		Maximum number of DivX files	-	-	-	
	Still Picture [JPEG]	Format	-	-	-	
		Compatible pixels	-	-	-	
MP3	Compatible compression rate	-	-	-		
	Compatible sampling rate	-	-	-		
Common Items	JPEG, MP3	Maximum number of folders	-	-		
	Maximum number of MP3 files	-	-	-		
SD CARD SLOT	SD Memory Card Slot	-	-	-		
	Compatible Media ⁴	-	-	-		
	Format	-	-	-		
	Still Picture [JPEG]	Format	-	-		
Compatible Pixels	-	-	-			
SD Video [MPEG2]	Codec	-	-	-		
File Format	-	-	-			
GENERAL	Power Supply	AC 220-240V, 50Hz	AC 220-240V, 50Hz	AC 220-240V, 50Hz		
	Power Consumption (Approximate)	Normal Use Approx. 29 W Power Save Mode Approx. 2 W	Approx. 32 W Approx. 2.2 W	Approx. 25 W Approx. 2 W		
	Dimensions (W x H x D)mm	430 x 59 x 326	430 x 84 x 345	430 x 59 x 330		
	Weight (Approximate)	4.2 kg	5.4 kg	3.2 kg		
	Operating Temperature	5 - 40 °C	5 - 40 °C	5 - 40 °C		
	Operating Humidity Range	10-80 %RH (no condensation)	10-80 %RH (no condensation)	10-80 %RH (no condensation)		

1 Discs recorded and analysed on recording devices. 2 For contents recorded on CD-R/RW media from CDs or personal use. Playability may vary depending on conditions and discs. 3 Official DVX® certified product. Plays all versions of DVX® video (including DVX®) with standard playback of DVX® media files. DVX®, DVX® Certified, and associated logos are trademarks of DVX®, Inc. and are used under license. About DVX® DVX® is a popular media technology created by DVX®, Inc. DVX® media files contain highly compressed video with high visual quality that maintains a relatively small file size. 4 This unit can play CD-R, audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording. 5 In EP mode, you can select either 6 hours or 8 hours of recording. 6 In EP mode, you can select either 6 hours or 8 hours of recording. The sound quality in 6-hour EP mode is higher quality than in 8-hour EP mode. 4 DMR-EZ48V/EZ28 are compatible with SD Memory Card / miniSD™ / microSD™ / microSDHC™ Cards (A minisD™ / microSD™ / microSDHC™ cards require a compatible reader to be inserted). These units are compatible with DCF based, still picture (JPEG) files recorded using a digital camera. These units are not compatible with sound, moving pictures or with types of still pictures other than JPEG. When saving still pictures on Hard Disk Drive, it is recommended that you copy them to the SD Memory Card or DVD-RAM also. 7 Long file name is unsupported. 8 It is compatible to a DVD-Video format after finalised. 9 Total number of recognizable file including MP3, JPEG, DivX and other type of files is 4000. # 1GB = one billion bytes. Usable capacity will be less. Specifications are subject to change without notice. Weight and dimensions are approximate.

DVD Video Recorder - Ireland only

MODEL		DMR-EH58EBLK		
PLAYABLE DISCS	DVD	DVD-Video	•	
	DVD-RAM	DVD-VR	•	
		JPEG	•	
	DVD-R/DVD-R DL/DVD-RW ¹	DVD-Video	•	
		DVD-VR	•	
		MP3 ²	• DVD-R, DVD-R DL	
		JPEG	• DVD-R, DVD-R DL	
		DivX ³	• DVD-R, DVD-R DL	
	+R/ ⁴ +R DL/ ⁴ +RW ⁴	Video	•	
	CD ⁵ , CD-R/CD-RW ^{1,4}	CD-DA	•	
		Video CD	•	
		SVCD	•	
	MP3 ²	•		
	JPEG	•		
	DivX ³	•		
RECORDABLE DISCS	DVD-RAM	Ver.2.0	• 2x Speed	
		Ver.2.1	• 2-3x Speed	
		Ver.2.2	• 2-5x Speed	
	DVD-R	Ver.2.0	• 1x Speed	
		Ver.2.0	• 1-4x Speed	
		Ver.2.0	• 1-8x Speed	
		Ver.2.1	• 1-16x Speed	
	DVD-R DL	Ver.3.0	• 2-4x Speed	
		Ver.3.0	• 2-8x Speed	
	DVD-RW	Ver.1.1	• 1x Speed	
		Ver.1.1	• 1-2x Speed	
		Ver.1.2	• 2-4x Speed	
		Ver.1.2	• 2-6x Speed	
	+R	Ver.1.0	• 2.4x Speed	
		Ver.1.1	• 2.4-4x Speed	
		Ver.1.2	• 2.4-8x Speed	
		Ver.1.3	• 2.4-16x Speed	
	+R DL	Ver.1.0	• 2.4x Speed	
		Ver.1.1	• 2.4-8x Speed	
	+RW	Ver.1.1	• 2.4x Speed	
		Ver.1.2	• 2.4-4x Speed	
	RECORDING FORMAT	DVD-RAM	DVD Video Recording Format	
		DVD-R, DVD-R DL, DVD-RW	DVD-Video Format ⁸	
	RECORDING TIME (APPROXIMATE)	Built-in Hard Disk Capacity	250 GB [#]	
Hard Disk Drive		XP Mode	55 hours	
RECORDING TIME (APPROXIMATE)		SP Mode	110 hours	
		LP Mode	221 hours	
	4.7GB* Disc	EP Mode5	331 / 441 hours	
		XP Mode	1 hour	
		SP Mode	2 hours	
		LP Mode	4 hours	
		EP Mode5	6 / 8 hours	
	8.5GB* DVD-R DL / +R DL Disc	XP Mode	1 hour 45 minutes	
		SP Mode	3 hours 35 minutes	
		LP Mode	7 hours 10 minutes	
		EP Mode5	10 hours 45 minutes / 14 hours 20 minutes (DVD-R DL only)	
	VIDEO	Video System	SECAM (only input) / PAL colour signal 625 lines, 50 fields	
Recording System		NTSC colour signal 525 lines, 60 fields		
Input		Video In	AV1 / AV2 (21 pin), AV3 (pin jack)	
		S-Video In	AV2 (21 pin), AV3 (S terminal)	
		RGB In	AV2 (21 pin) [PAL]	
Output		Video Out	AV1 / AV2 (21 pin), Video Out (pin jack)	
		S-Video Out	AV1 (21 pin), S-Video Out (S terminal)	
		RGB Out	AV1 (21 pin) [PAL]	
Component Video Output (Y, PB, PR)		•		
Recording System		Dolby Digital 2ch, Linear PCM (XP mode)		
AUDIO	Input	Audio In AV1 / AV2 (21 pin), AV3 (pin jack)		
	Output	Audio Out AV1 / AV2 (21 pin), Audio Out (pin jack)		
VIDEO / AUDIO	DV Input	•		
	HDMI Output : 576i, 576p, 720p, 1080i, 1080p	•		
TUNER	VIERA Link	• (HDAVI Control 3)		
	Tuner System	PAL-1 (VHF Tuner)		
EPG	Gemster Guide+ (Analogue)	•		
	Gemster Guide+ (Digital)	•		
VHS	Playback Format	-		
	Operations	-		
USB TERMINAL	Format	USB2.0 Full Speed		
	DivX	Maximum number of folders	300 Recognizable folders per USB on this unit (including root folder)	
MP3	Maximum number of DivX files	200 Recognizable DivX files per USB on this unit ⁹		
	Format	JPEG		
JPEG, MP3	Compatible pixels	Between 34 x 34 and 6,144 x 4,096 pixels		
	Compatible compression rate	Sub sampling 4:2:2 or 4:2:0 This unit is not compatible with MOTION JPEG.		
Common Items	Compatible sampling rate	32kbps-320kbps		
	Maximum number of folders	16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz		
SD Memory Card Slot	Maximum number of MP3 files	This unit is compatible with ID3 tags.		
	Maximum number of JPEG files	3000 Recognizable JPEG files per USB on this unit ⁹		
Compatible Media ⁶	Format	-		
	Still Picture (JPEG)	Format	-	
SD Video (MPEG2)	Compatible Pixels	-		
	Codec	-		
Power Supply	File Format	-		
	Normal Use	AC 220 - 240V, 50Hz		
Power Consumption (Approximate)	Power Save Mode	Approx. 36 W		
	Dimensions (W x H x D)mm	Approx. 2 W		
Weight (Approximate)	Operating Temperature	430 x 59 x 326		
	Operating Humidity Range	4.2 kg		
		5 - 40 °C		
		10-80 %RH (no condensation)		

1 Disc recorded and finalized on DVD video recorder/cameras. 2 For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs. 3 Official DivX Certified product. Plays all versions of DivX video (including DivX) with standard playback of DivX media files. DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license. 4 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording. 5 In EP mode, you can select either 6 hours or 8 hours of recording. The sound quality in 6-hour EP mode is higher quality than in 8-hour EP mode. 6 DMR-EH58EBLK/EH88 are compatible with SD Memory Card / miniSD™ Cards (microSD™ Cards (A miniSD™ / microSD™ adaptor needs to be inserted). as these units are compatible with DCF based, still picture (JPEG) files recorded using a digital camera. These units are not compatible with types of still pictures other than JPEG. When saving still pictures on Hard Disk Drive, it is recommended that you copy them to the SD Memory Card or DVD-RAM also. 7 Long file name is unsupported. 8 It is compatible to a DVD-Video format after finalised. 9 Total number of recognizable file including MP3, JPEG, DivX and other types of files is 400. # 1GB = one billion bytes. Usable capacity will be less. Specifications are subject to change without notice. Weight and dimensions are approximate.

HDD Jukebox Cinema System

MODEL		SC-PTX7	
FORMAT			
Playable Type			
DVD-Audio	•		
DVD-Video	•		
DVD-RAM/-RW1/-R1/-R (DL)1	•		
+R1/+R (DL)1/+RW 1	•		
SVCD2	•		
Video CD	•		
CD, CD-R/RW3	•		
HighMAT (Level 2)	•		
WMA	•		
MP34	•		
JPEG	•		
MPEG45	•		
DivX6	•		
Recordable Type			
CD, CD-R/RW3	•		
WMA	•		
MP34	•		
Television Signal System	PAL625/60, PAL525/60, NTSC		
RECEIVER SECTION			
Power Output Dolby Virtual Speaker Mode (RMS)			
Total Power	300 W		
Front:	•		
Front Section	50W x 2 (1kHz, 8ohms, 10% THD)		
Center Section	35W x 2 (1kHz, 8ohms, 10% THD)		
Subwoofer	100W (100Hz, 4ohms, 10% THD)		
Power Output Dolby Virtual Speaker Mode (DIN)			
Total Power	210W		
Front:	•		
Front Section (both ch driven)	35W x 2 (1kHz, 8ohms, 1% THD)		
Center Section (both ch driven)	35W x 2 (1kHz, 8ohms, 1% THD)		
Subwoofer	70W (100Hz, 4ohms, 1% THD)		
Power Output Stereo Mode (DIN)			
Total Power	140W		
Front:	•		
Front Section (both ch driven)	35W x 2 (1kHz, 8ohms, 1% THD)		
Subwoofer	70W (100Hz, 4ohms, 1% THD)		
H.Bass			
EQ	• (4 preset & Manual)		
Wireless PC Playback 7(Bluetooth)	Ready		
Play, Stop, Pause, Skip Control (WMP)	•		
Compatible with optional Panasonic Universal Dock for iPod® (SH-PD10)	• (Playback, Recharge)		
Digital Synthesizer Tuner	•		
HDD SECTION			
Multi Source HDD Juckbox	• (80GB8)		
CD, CD-R/RW to HDD Ripping	• (Max. 4x Speed/ CDD8)		
MP3 and WMA PC files transferring to HDD via LAN	• (Max. 15x Speed)		
AUX/Wireless AUX to HDD recording	• (Music ID)		
Music Shuffle	•		
Digital Re-master	• (MP3, WMA on HDD only)		
DVD/CD SECTION			
Dolby Digital Decoder	•		
Dolby Pro Logic II & Dolby Virtual Speaker	•		
DTS Decoder	•		
VIERA Link	• (HDAVI Contorol 2)		
Dialogue Enhancer	•		
1080p Up-Conversion with HDMI	•		
Progressive Scan (PAL/NTSC)	•		
Cinema Mode	•		
Variable Zoom	•		
Monitor Selector	•		
Video D/A Converter	216MHz/12-bit		
INPUT/ OUTPUT			
HDMI Terminals	•		
Scart Terminal	•		
Component Video Out	•		
S-Video Out	•		
Digital Input	• (Optical)		
Digital Output	• (Optical)		
Audio Input	•		
Option Port for Wireless Audio Kit / Panasonic Universal Dock for iPod®	•		
USB Terminal	• (for MP3, WMA, JPEG and MPEG4 Playback)		
Music Port	•		
LAN Terminal	•		
Weight (kg)	4.7		
Dimensions (W x H x D) (mm)	360 x 106 x 334		
SPEAKER SYSTEM			
Twin Center System			
Front Speaker:			
Front Speaker Section	•		
Configuration	Full range, Bass-reflex		
Full range	6.5cm cone type		
Center Speaker Section:			
Configuration	Full range, Bass-reflex		
Full range	6.5cm cone type		
Weight (kg)	1.4		
Dimensions (W x H x D) (mm)	106 x 228 x 131		
Subwoofer Speaker:			
Configuration	Bass-reflex		
Woofer	17cm cone type		
Weight (kg)	5.3		
Dimensions (W x H x D) (mm)	137 x 403 x 437		

1 Disc recorded and finalized on DVD video recorder/cameras. 2 Disc that cannot be played: "Chao" VCD available on the market including DVD, DVD-CD and SVCD that do not conform to EC2217. 3 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording. 4 For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs. 5 You can play MPEG4 data conforming to SD VIDEO specifications (ASF Standard/MPEG4 (Simple Profile) video system) recorded with the Panasonic SD multi cameras or DVD Recorders. This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard (MPEG-4 Video) and/or (ii) decoding MPEG-4 Video that was recorded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted on still be modified, reproduced, distributed, sold, leased, rented, or otherwise used for any other use. Additional information including that relating to promotional, internal and commercial use and licensing may be obtained from MPEG LA, Inc. See <http://www.mpegla.com>. 6 Official DivX Certified product. Plays all versions of DivX video (including DivX) with standard playback of DivX media files. DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license. DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size. 7 Notes: Total harmonic distortion is measured by digital spectrum analyzer. Design and specifications are subject to change without notice.

Portable DVD Player [EB]

MODEL	DVD-LS86	DVD-LS83
FORMAT		
Playable Type		
DVD	DVD-Video	•
	DivX®1	•
DVD-RAM	DVD-VR	•
	MP32	•
	JPEG	•
	MPEG43	•
	DivX®1	•
DVD-R4/-RW4	DVD-Video	•
	DVD-VR	•
	MP32	•
	JPEG	•
	MPEG43	•
	DivX®1	•
DVD-R (DL)4	DVD-Video	•
	DVD-VR	•
+R4/ +R (DL)4/ +RW4	Video	•
CD, CD-R/RW5	CD-DA	•
	Video CD	•
	SVCD6	•
	HighMAT (Level 2)	•
	WMA	•
	MP32	•
	JPEG	•
	MPEG43	•
	DivX®1	•
Television Signal System	PAL/PAL60 (NTSC) Selectable	PAL/PAL60 (NTSC) Selectable
PORTABLE		
LCD Monitor (Widescreen)	8.5" QVGA	8.5" QVGA
Playback Times ⁷	approx.13H (with battery pack)	approx.6H (with battery pack)
Rechargeable Battery	•	•
LCD Mode	•	•
LCD Selector	• (NORMAL/FULL)	• (NORMAL/FULL)
Picture Adjustment on LCD	• (BRIGHT/COLOUR)	• (BRIGHT/COLOUR)
VIDEO		
Video D/A Converter	108MHz/12bit	108MHz/12bit
MPEG Digital Noise Reduction	•	•
Cinema Mode	•	•
Depth Enhancer	•	•
AUDIO		
Audio D/A Converter	96kHz/24bit	96kHz/24bit
Dolby Digital Decoder	• (2ch)	• (2ch)
DTS Decoder	• (2ch)	• (2ch)
H.Bass	•	•
Built-in Speaker	2ch	2ch
CONVENIENT		
Mono Arm for Flexible Display Angle	•	•
Advanced Surround (Speaker Surround/Headphone Surround)	•	•
Dialogue Enhancer	•	•
Hi-Speed Smooth Scan	• (x200)	• (x200)
Variable Playback Speed Control	• (x0.6 - x1.4)	• (x0.6 - x1.4)
Playback Mode Setting	• (REPEAT)	• (REPEAT)
Car DC Adaptor	•	•
Headrest Mounting Bracket	• 8	• 8
INPUT/ OUTPUT		
AV Input/ Output	•	•
iPod ⁹ AV Input	•	-
Headphone Out	• (2)	• (2)
SPECIFICATIONS		
Video S/N	60dB	60dB
Dynamic Range	90dB	90dB
Power Source	AC100V-240V, 50/60Hz	AC100V-240V, 50/60Hz
Power Consumption (using included AC adaptor)	14W	14W
Weight with Rechargeable Battery (g)	1123	1020
Dimensions (including battery) (W x D x H) (mm)	242.6 x 179.3 x 51.5	242.6 x 173.5 x 46.6

1 Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. Certified to the DivX Home Theater Profile.

2 For contents recorded for your personal use only.

3 You can play MPEG4 data (conforming to SD VIDEO specifications: ASF standard/MPEG4 (Simple Profile) video system/G.726 audio system) recorded with the Panasonic SD multi cameras or DVD Recorders on to CD-R/RW or DVD-RAM. This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEG LA, LLC. See <http://www.mpegla.com>.

4 Discs recorded and finalized on DVD video recorders/cameras.

5 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.

6 Disc that cannot be played: "Chaoji VCD" available on the market including VCD, DVD and SVCD that do not conform to EEC6107.

7 When brightness is set to lowest level and use of headphones.

8 Depending on the type of headset, you may not be able to attach the bracket.

9 iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

Design and specifications are subject to change without notice.

DVD Home Cinema Sound System (EB)

MODEL	SC-PT860	SC-PT560	SC-PT467	SC-PT460	SC-PT160
FORMAT					
Playable Type					
DVD-Video	•	•	•	•	•
DVD-RAM/-RW1/-R1/-R (DL)1	•	•	•	•	•
+R1/+R (DL)1/+RW1	•	•	•	•	•
SVCD2	•	•	•	•	•
Video CD	•	•	•	•	•
CD, CD-R/RW3	•	•	•	•	•
WMA	•	•	•	•	•
MP34	•	•	•	•	•
JPEG	•	•	•	•	•
MPEG4	-	-	-	-	-
Television Signal System	PAL625/50, PAL525/60, NTSC	PAL625/50, PAL525/60, NTSC	PAL625/50, PAL525/60, NTSC	PAL625/50, PAL525/60, NTSC	PAL625/50, PAL525/60, NTSC
RECEIVER SECTION					
Power Output Home Theater Mode (RMS)					
Total Power	1000W	1000 W	1000 W	1000 W	330 W
Front	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	55W x 2 (1kHz, 5ohms, 10% THD)
Center	250W (1kHz, 6ohms, 10% THD)	250W (1kHz, 6ohms, 10% THD)	250 W (1kHz, 6ohms, 10% THD)	250 W (1kHz, 6ohms, 10% THD)	55W (1kHz, 5ohms, 10% THD)
Surround	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	125W x 2 (1kHz, 3ohms, 10% THD)	55W x 2 (1kHz, 5ohms, 10% THD)
Subwoofer	250W (100Hz, 6ohms, 10% THD)	250W (100Hz, 6ohms, 10% THD)	250W (100Hz, 6ohms, 10% THD)	250W (100Hz, 6ohms, 10% THD)	55W (100Hz, 5ohms, 10% THD)
Power Output Home Theater Mode (DIN)					
Total Power	590W	590W	590W	590W	150W
Front	75W x 2 (1kHz, 3ohms, 1% THD)	75W x 2 (1kHz, 3ohms, 1% THD)	75W x 2 (1kHz, 3ohms, 1% THD)	75W x 2 (1kHz, 3ohms, 1% THD)	25W x 2 (1kHz, 5ohms, 1% THD)
Center	145W (1kHz, 6ohms, 1% THD)	145W (1kHz, 6ohms, 1% THD)	145W (1kHz, 6ohms, 1% THD)	145W (1kHz, 6ohms, 1% THD)	25W (1kHz, 5ohms, 1% THD)
Surround	75W x 2 (1kHz, 3ohms, 1% THD)	75W x 2 (1kHz, 3ohms, 1% THD)	75W x 2 (1kHz, 3ohms, 1% THD)	75W x 2 (1kHz, 3ohms, 1% THD)	25W x 2 (1kHz, 5ohms, 1% THD)
Subwoofer	145W (100Hz, 6ohms, 1% THD)	145W (100Hz, 6ohms, 1% THD)	145W (100Hz, 6ohms, 1% THD)	145W (100Hz, 6ohms, 1% THD)	25W (100Hz, 5ohms, 1% THD)
Digital Amplifier	•	•	•	•	-
Whisper-mode Surround	•	•	•	•	-
Surround Enhancer	•	•	•	•	-
Dolby Pro Logic II	• (All 2ch Source)	• (All 2ch Source)	• (All 2ch Source)	• (All 2ch Source)	• (Disc/USB)
Super Surround	-	-	-	-	• (Except Disc/ USB)
Center Focus	• (Real Center Focus)	• (Real Center Focus)	• (Real Center Focus)	• (Real Center Focus)	-
EQ	• (4 preset)	• (4 preset)	• (4 preset)	• (4 preset)	• (4 preset)
Subwoofer Level Control	•	•	•	•	•
Subwoofer Boost	•	•	•	•	-
Auto Speaker Setup	•	-	-	-	-
RDS	•	•	•	•	-
Digital Synthesizer Tuner	• (FM)	• (FM)	• (FM)	• (FM)	• (FM)
Remote Control	• (AV Remote Control)	• (AV Remote Control)	• (AV Remote Control)	• (AV Remote Control)	• (AV Remote Control)
DVD/CD SECTION					
Dolby Digital Decoder	•	•	•	•	•
DTS Decoder	•	•	•	•	•
Dialogue Enhancer	•	•	•	•	•
1080p Up-Conversion with HDMI	•	•	•	•	-
Advanced Progressive Scan (PAL/NTSC)	•	•	•	•	-
Cinema Mode	•	•	•	•	•
Zoom	• (Normal/Auto/2x/4x)	• (Normal/Auto/2x/4x)	• (Normal/Auto/2x/4x)	• (Normal/Auto/2x/4x)	• (Normal/Auto/2x/4x)
Monitor Selector	•	•	•	•	•
Video D/A Converter	108MHz/12-bit	108MHz/12-bit	108MHz/12-bit	108MHz/12-bit	108MHz/12-bit
IPOD SECTION					
Universal Dock for iPod5	Integrated	Integrated	Integrated	Integrated	-
On-Screen Display for iPod Music Menu	•	•	•	•	-
iPod Music Playback	•	•	•	•	-
iPod Video and Photo Playback6	•	•	•	•	-
INPUT/OUTPUT					
HDMI Terminals	•	•	•	•	-
Scart Terminal	•	•	•	•	•
Component Video Out	•	•	•	•	-
Digital Input	• (optical)	• (optical)	• (optical)	• (optical)	-
Wireless Terminal	•	•	•	•	-
USB Terminal	• (for MP3, WMA, JPEG Playback)	• (for MP3, WMA, JPEG Playback)	• (for MP3, WMA, JPEG Playback)	• (for MP3, WMA, JPEG Playback)	• (for MP3, WMA, JPEG Playback)
Audio Input	• (AUX)	• (AUX)	• (AUX)	• (AUX)	• (AUX)
VIERA Link	• (HDMI Control 3)	• (HDMI Control 3)	• (HDMI Control 3)	• (HDMI Control 3)	-
Weight (kg)	3.4	3.4	3.4	3.4	3
Dimensions (W x H x D) (mm) (Approx)	430 x 63 x 327	430 x 63 x 327	430 x 63 x 327	430 x 63 x 327	430 x 60 x 342
SPEAKER SYSTEM					
Wireless Rear	Ready7	Ready7	• 8	-	-
Front Speaker					
Configuration	1 way 1 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex
Speaker Unit	6.5cm Cone Type	6.5cm Cone Type	6.5cm Cone Type	6.5cm Cone Type	6.5cm Cone Type
Weight (kg) (Approx)	3.7	3.7	0.6	0.6	0.6
Dimensions (W x H x D) (mm) (Approx)	252 x 1123 x 235	252 x 1123 x 235	92 x 142 x 95	92 x 142 x 95	92 x 135 x 95.4
Center Speaker					
Configuration	1 way 2 speaker, Bass-reflex	1 way 2 speaker, Bass-reflex	1 way 2 speaker, Bass-reflex	1 way 2 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex
Speaker Unit	6.5cm Cone Type x 2 (Bamboo Diaphragm)	6.5cm Cone Type x 2 (Bamboo Diaphragm)	6.5cm Cone Type x 2 (Bamboo Diaphragm)	6.5cm Cone Type x 2 (Bamboo Diaphragm)	6.5cm Cone Type
Weight (kg) (Approx)	1.3	1.3	1.3	1.3	0.6
Dimensions (W x H x D) (mm) (Approx)	270 x 94x 95	270 x 94x 95	270 x 94x 95	270 x 94x 95	135 x 92 x 95.4
Surround Speaker					
Configuration	1 way 1 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex	1 way 1 speaker, Bass-reflex
Speaker Unit	6.5cm Cone Type	6.5cm Cone Type	6.5cm Cone Type	6.5cm Cone Type	6.5cm Cone Type
Weight (kg) (Approx)	3.7	0.6	0.6	0.6	0.6
Dimensions (W x H x D) (mm) (Approx)	252 x 1123 x 235	92 x 142 x 95	92 x 142 x 95	92 x 142 x 95	92 x 135 x 95.4
Subwoofer Speaker					
Configuration	Kelton type	Kelton type	Bass-reflex	Bass-reflex	Bass-reflex
Speaker Unit	25 cm Passive Radiator/ 16cm Woofer (Kelton Type)	25 cm Passive Radiator/ 16cm Woofer (Kelton Type)	16cm Cone Type	16cm Cone Type	12cm Cone Type
Weight (kg) (Approx)	4.7	4.7	3.6	3.6	3
Dimensions (W x H x D) (mm) (Approx)	181 x 361 x 315	181 x 361 x 315	153 x 415 x 257	153 x 415 x 257	152 x 339 x 258
WIRELESS RECEIVER UNIT					
Power Output	-	-	125W x 2 (1kHz, 3ohms, 10% THD)	-	-
Weight (kg) (Approx.)	-	-	0.66	-	-
Dimensions (W x H x D)(mm) (Approx.)	-	-	165 x 90 x 164	-	-

1 Discs recorded and finalized on DVD video recorders/cameras.

2 Disc that cannot be played: "Chaiji VCD" available on the market including DVD, DVCD and SVCD that do not conform to IEC62107.

3 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.

4 For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs.

5 Made for iPod. iPod not included.

6 To enjoy iPod video contents, please connect your Home Cinema Sound System with SCART cable to your TV.

7 With the purchase of SH-F667.

8 Wireless Kit for Rear Speakers included.

* Notes: Total harmonic distortion is measured by digital spectrum analyzer.
 † Design and specifications are subject to change without notice.

DVD Player [EB]

MODEL	DVD-S54	DVD-S511	DVD-S33
FORMAT			
Playable Type			
DVD	DVD-Video • DivX [®] 01 •	•	•
DVD-RAM	DVD-VR • MP32 • JPEG • MPEG4 ³ • DivX [®] 01 •	---	---
DVD-R/-RW ⁴	DVD-Video • DVD-VR • MP3 ² • JPEG • MPEG4 ³ • DivX [®] 01 •	•	•
DVD-R (DL) ⁵ +R ⁷ /+R (DL) ⁷ /+RW ⁴	DVD-Video • Video •	•	•
CD, CD-R/RW ⁶	CD-DA • Video CD • SVCD ⁴ • WMA • MP3 ² • JPEG • MPEG4 ³ • DivX [®] 01 •	•	•
Television Signal System	PAL 625/50, PAL 525/60, NTSC	PAL 625/50, PAL 525/60, NTSC	PAL 625/50, PAL 525/60, NTSC
VIDEO			
Video D/A Converter	108MHz/12-bit	108MHz/12-bit	108MHz/12-bit
HD Up-Conversion	• (1080p/1080i/720p)	• (1080p/720p)	---
HD Enhancer	•	•	---
Deep Colour	•	•	•
Advanced Progressive Scan	•	•	•
Variable Zoom	• (x2, x4, Auto)	• (x2, x4, Auto)	• (x2, x4, Auto)
Digital Noise Reduction	•	•	•
Picture Mode	• 7	• 7	• 7
Soft Skin Detail	•	•	•
Monitor Select	•	•	•
NTSC Output Selectable	•	•	•
AUDIO			
Audio D/A Converter	192kHz/24-bit	192kHz/24-bit	96kHz/24-bit
Audio Re-Master	•	•	---
TV Delay	•	•	---
Dolby Digital Decoder	• (2ch)	•	• (2ch)
DTS Decoder	• (2ch)	•	• (2ch)
Advanced Surround (V.S.S.)	•	•	•
Dialogue Enhancer	•	•	•
Dynamic Range Compression	•	•	•
CONVENIENT			
VIERA Link	• (HDAVI control 2)	• (HDAVI Control)	---
DVD-RAM Speed Control Playback	•	---	---
Direct Navigator/ Playlist Playback (DVD-RAM)	•	---	---
Slow & Fast Audio Playback (DVD-RAM/ DVD-Video)	•	• (DVD-Video Only)	• (DVD-Video Only)
High-Speed Search	• (x 64)	• (x64)	• (x64)
Quick OSD	•	•	•
Manual Skip	•	•	•
Quick Replay	•	•	•
Audio/Jpeg Navigation Menu	•	•	•
INPUT/OUTPUT			
HDMI Terminal	•	•	---
Scart Terminal	•	•	•
Component Video Out (Y, PB, PR)	• 8	• 8	• 8
S-Video Out	•	•	---
Video Out	•	•	•
2ch Audio Out	•	•	•
Digital Audio Out	• (1 coaxial)	• (1 coaxial)	• (1 coaxial)
SPECIFICATIONS			
Horizontal Resolution	More than 500 lines	More than 500 lines	More than 500 lines
Video S/N	More than 65dB	More than 65dB	More than 65dB
Audio S/N	115dB	115dB	115dB
Dynamic Range	DVD 100dB CD 100dB	100dB 98dB	92dB 90dB
Power Source	AC 230-240V, 50Hz	AC 230-240V, 50Hz	AC 230-240V, 50Hz
Power Consumption	9W	10W	9W
Weight (lbs.)	2.0 (approx.)	2.0 (approx.)	2.0 (approx.)
Dimensions (W x H x D) incl. protrusions	430mm x 43mm x 239mm	430 x 43 x 239	430 x 43 x 263

1 Plays all versions of DivX[®] video (including DivX[®]6) with standard playback of DivX[®] media files.

Certified to the DivX Home Theater Profile. GMC(Global Motion Compensation) is not supported.

2 For contents recorded for your personal use only.

3 You can play MPEG4 data (conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/6.726 audio system) recorded with the Panasonic SD multi cameras or DVD Recorders on to CD-R/RW. This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEG LA, LLC. See <http://www.mpegla.com>.

4 Discs recorded and finalized on DVD video recorders/cameras.

5 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.

6 Disc that cannot be played: "Chaoyi VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

7 NORMAL, CINEMA1, CINEMA2, ANIMATION, DYNAMIC

8 Switchable

DVD Home Cinema Premium 2.1ch Sound System (EB)

MODEL	SC-PTX50
FORMAT	
Playable Type	
DVD-Audio	•
DVD-Video	•
DVD-RAM/-RW1/-R1/-R (DL)1	•
+R1/+R (DL)1/+RW 1	•
SVCD2	•
Video CD	•
CD, CD-R/RW3	•
HighMAT (Level 2)	•
WMA	•
MP34	•
JPEG	•
MPEG45	•
DivX [®] 6	•
Television Signal System	PAL625/50, PAL525/60, NTSC
RECEIVER SECTION	
Power Output - Dolby Digital Mode (RMS)	
Total Power	140W
Front	45W x 2 (1kHz, 6ohms, 10% THD)
Subwoofer	50W (100Hz, 6ohms, 10% THD)
Power Output - Dolby Digital Mode (DIN)	
Total Power	80W
Front	25W x 2 (1kHz, 6ohms, 1% THD)
Subwoofer	30W (100Hz, 6ohms, 1% THD)
Digital Amplifier	•
H.Bass	•
Dolby Pro Logic II & Dolby Virtual Speaker	•
EQ	• (4 preset)
Subwoofer Level Control	•
Compatible with optional Panasonic Universal Dock for iPod [®] (SH-PD10)	• (Playback, Recharge)
RDS	•
Digital Synthesizer Tuner	• (FM)
Remote Control	• (AV Remote Control)
DVD/CD SECTION	
Dolby Digital Decoder	•
DTS Decoder	•
Dialogue Enhancer	•
1080p Up-Conversion with HDMI	•
Advanced Progressive Scan (PAL/NTSC)	•
Cinema Mode	•
Variable Zoom	•
Monitor Selector	•
Video D/A Converter	108MHz/12-bit
INPUT/OUTPUT	
HDMI Terminals	•
Scart Terminal	•
Component Video Out	•
Digital Input	• (Optical)
Digital Output	• (Optical)
Audio Input	• (AUX)
Option Port for Panasonic Universal Dock for iPod [®]	•
USB Terminal	• (MP3, WMA, JPEG and MPEG4)
Music Port	•
VIERA Link	• (HDAVI Control 2)
Weight (kg)	3.5
Dimensions (W x H x D) (mm) (Approx)	325 x 87 x 320
SPEAKER SYSTEM	
Front Speaker	
Configuration	2-way, 3-speaker, Bass-reflex
Woofer (Approx)	6.5cm cone type x 2 (Bamboo Diaphragm)
Tweeter (Approx)	6 cm cone type (Bamboo Diaphragm)
Impedance	6 Ω
Input Power (IEC)	250W (Max)
Output Sound Pressure	83 dB/W (1.0 m)
Cross Over Frequency	5 kHz
Frequency Range	80Hz - 25kHz (-16dB) / 93Hz-22kHz (-10dB)
Weight (kg)	1.7
Dimensions (W x H x D) (mm) (Approx)	121 x 328 x 129
Subwoofer Speaker	
Configuration	Kelton type
Speaker Unit	25cm Passive Radiator / 16cm Woofer (Kelton type)
Weight (kg) (Approx)	4.7
Dimensions (W x H x D) (mm) (Approx)	181 x 361 x 315

Micro Systems

MODEL	SC-PM86D	SC-PMX3DB	SC-PM46DB	SC-EN38DB	SC-EN38
AMPLIFIER SECTION					
RMS Power Output	160W (1kHz, 3ohms, 10% THD)	160W (1kHz, 3ohms, 10% THD)	40W (1kHz, 4ohms, 10% THD)	6W (1kHz, 6ohms, 10% THD)	6W (1kHz, 6ohms, 10% THD)
TUNER SECTION					
DAB Tuner	-	Yes	Yes	Yes	-
RDS Tuner	Yes	Yes	Yes	Yes	Yes
Digital Synthesizer Tuner	Yes	Yes	Yes	Yes	Yes
Station Presets	30-FM/15-AM	30-FM	20-FM	30-FM	30-FM/15-AM
Auto Tuning	Yes	Yes	Yes	Yes	Yes
Frequency Range	FM 87.50 - 108.00MHz [50kHz step] AM 522 - 1629kHz [9kHz step]	FM 87.50 - 108.00MHz [50kHz step]	FM 87.50 - 108.00MHz [50kHz step]	FM 87.50 - 108.00MHz [50kHz step]	FM 87.50 - 108.00MHz [50kHz step] AM 522 - 1629kHz [9kHz step] / 520-1630kHz [10kHz step]
DISC PLAYER SECTION					
Playable Type	DVD-Video, DVD-RAM, DVD-RW*1, DVD-R*1, -R (DL)*1, +R*1, +R (DL)*1, +RW*1, SVCD*2, VCD, CD, CD-R/RW*3, MP3*4, WMA, JPEG, MPEG4 and DivX	CD, CD-R/RW*3 and MP3*4	CD, CD-R/RW*3 and MP3*4	CD, CD-R/RW*3 and MP3*4	CD, CD-R/RW*3 and MP3*4
Progressive Scan (DVD)	Yes	---	---	---	---
Dolby Digital Decoder & DTS Digital Out (DVD)	Yes	---	---	---	---
MASH 1-bit DAC (CD)	Yes	Yes	Yes	Yes	Yes
Motorized Lid	---	---	---	Yes	Yes
CONNECTION					
Universal Dock for iPod	Compatible*5	Compatible*5	---	Integrated Universal Dock	Integrated Universal Dock
Music Data Transfer from PC to iPod via USB	---	---	---	Yes	Yes
USB Recording from CD to Digital Audio Player	---	Yes	---	---	---
USB Playback	MP3*4, WMA, JPEG, DivX and MPEG4	MP3*4	MP3*4	MP3*4	MP3*4
Music Port	Yes	Yes	Yes	Yes	Yes
Wireless PC Link Ready*6	Yes	Yes	---	Yes	Yes
SOUND & OTHER FEATURES					
D.Bass	Yes	Yes	---	Yes	Yes
Preset EQ	4 (Heavy, Clear, Soft, Vocal)	4 (Heavy, Clear, Soft, Vocal)	4 (Heavy, Clear, Soft, Vocal)	4 (Heavy, Clear, Soft, Vocal)	4 (Heavy, Clear, Soft, Vocal)
Manual EQ	Yes	---	---	---	---
Bass & Treble Control	---	Yes	Yes	---	---
Surround Circuit	Yes	Yes	Yes	Yes	Yes
Re-Master	Digital/Analog	Digital/Analog	Digital	Digital/Analog	Digital/Analog
Display	Fluorescent	Fluorescent	Fluorescent	LCD	LCD
Auto Power Off / Dimmer	--- / ---	Yes / Yes	Yes / Yes	--- / ---	--- / ---
Programmable Timer	PLAY/SLEEP	PLAY/SLEEP	PLAY/REC/SLEEP	PLAY/SLEEP	PLAY/SLEEP
Wireless Remote Control	Yes	Yes	Yes	Yes	Yes
GENERAL					
Dimensions (W x H x D)	175 x 240 x 342.3 mm	175 x 240 x 349.8 mm	164 x 227 x 314 mm	252.5 x 202.8 x 133.5 mm	252.5 x 202.8 x 133.5 mm
Weight	4.5kg	4.5 kg	3.4 kg	1.9 kg	1.9 kg
SPEAKER SYSTEM					
Type	2-way, 2-speaker, Bass-reflex	3-way, 3-speaker, Bass-reflex	2-way, 2-speaker, Bass-reflex	Full Range, Bass-reflex	Full Range, Bass-reflex
Full Range	---	---	---	7cm	7cm
Woofer	10cm	14cm	10cm	---	---
Tweeter	6cm	1.9cm	6cm	---	---
Super Tweeter	---	1.5cm	---	---	---
MDF Baffle	Yes	Yes	Yes	---	---
Magnetic Shield	Yes	---	---	---	---
Detachable Speaker Grilles	Yes	Yes	Yes	---	---
Dimensions (W x H x D)	145 x 240 x 217 mm	161 x 240 x 262 mm	145 x 227 x 201 mm	120 x 202.8 x 133.5 mm	120 x 202.8 x 133.5 mm
Weight	2.1kg	2.6kg	1.9 kg	0.65 kg	0.65 kg

*1 Discs recorded and finalized on DVD video recorders/cameras. *2 Disc that cannot be played: "Chaaji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107. *3 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording. *4 MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia. For contents recorded on CD-R/RW media for personal use. Playability may vary depending on conditions and discs. *5 Optional kit SH-PD10 *6 Optional kit SH-FX570 Design and specifications are subject to change without notice.

Micro Systems

MODEL	SC-PM4	SC-PM4DB
AMPLIFIER SECTION		
RMS Power Output	20W (1kHz, 6 ohms, 10% THD)	20W (1kHz, 6 ohms, 10% THD)
H.Bass	---	---
Preset EQ	4 (Heavy, Clear, Soft, Vocal)	4 (Heavy, Clear, Soft, Vocal)
Bass & Treble Control	Main Unit & Remote Control	Main Unit & Remote Control
TUNER SECTION		
DAB Tuner	-	Yes
Digital Synthesizer Tuner	Yes	Yes
Station Presets	20-FM/15-AM	20-FM
Frequency Range	FM 87.50 - 108.00MHz [50kHz step], BAND III 218.640-229.072MHz* Default*4 174.928-239.200MHz*5	FM 87.50 - 108.00MHz [50kHz step], BAND III 218.640-229.072MHz* Default*4 174.928-239.200MHz*5
CD PLAYER SECTION		
Playable Type	CD, CD-R/RW*1 and MP3*2	CD, CD-R/RW*1 and MP3*2
D/A Converter	MASH 1-bit DAC	MASH 1-bit DAC
CONNECTION		
Universal Dock for iPod	---	---
USB Port	---	---
Music Port	Yes	Yes
Wireless PC Link Ready*3	---	---
GENERAL		
Dimensions (W x H x D)	165 x 227 x 283 mm	165 x 227 x 283 mm
Weight	2.2 kg	2.2 kg
SPEAKER SYSTEM		
Type	Full Range, Bass-reflex	Full Range, Bass-reflex
Full Range	10cm	10cm
Woofer	---	---
Tweeter	---	---
Super Tweeter	---	---
Dimensions (W x H x D)	139 x 227 x 136 mm	139 x 227 x 136 mm
Weight	1.3kg	1.3kg

Home Cinema TV Cabinet (E/EB)

MODEL	SC-HTR310	SC-HTR210
RECEIVER SECTION		
POWER OUTPUT	Home Theater Mode (RMS)	3.1ch System
Total Power	300W	300W
Front	70W x 2 (1kHz, 4ohms, 10% THD)	70W x 2 (1kHz, 4ohms, 10% THD)
Center	70W (1kHz, 4ohms, 10% THD)	70W (1kHz, 4ohms, 10% THD)
Subwoofer	90W (100Hz, 3ohms, 10% THD)	90W (100Hz, 3ohms, 10% THD)
Whisper-mode Surround	•	•
DTS Digital Surround	•	•
Dolby Digital Decoder/ Dolby Pro Logic II	•	•
Dolby Virtual Speaker	•	•
Real Center	•	•
Game Direct Button	•	•
Auto Lip Synchronization Function	•	•
1080p Output	•	•
VIERA Link	•	•
Remote Control	•	•
TERMINALS		
HDMI Terminals	• [1in(BD/DVD)/1out(TV)]	• [1in(BD/DVD)/1out(TV)]
Digital Input	• [2 optical, 1coaxial]	• [2 optical, 1coaxial]
Audio Input	• [TV, AUX3]	• [TV, AUX3]
Weight (kg) (Approx.)	50	43
Dimensions (W x H x D) (mm) (Approx.)	1300 x 444 x 458	1080 x 444 x 458
SPEAKER SYSTEM		
Front	Configuration	1 way 1 speaker, Bass-reflex
Speaker Unit (Approx.)	6.5cm Cone Type (Bamboo Diaphragm)	6.5cm Cone Type (Bamboo Diaphragm)
Center	Configuration	1 way 1 speaker, Bass-reflex
Speaker Unit (Approx.)	6.5cm Cone Type (Bamboo Diaphragm)	6.5cm Cone Type (Bamboo Diaphragm)
Subwoofer	Configuration	1 way 2 speaker, Bass-reflex
Speaker Unit (Approx.)	13 cm Cone Type x 2 (Dual Drive Subwoofer)	13 cm Cone Type x 2 (Dual Drive Subwoofer)

Design and specifications are subject to change without notice.

CD Mini Systems (E2)

MODEL	SC-AK770	SC-AK270
AMPLIFIER SECTION		
RMS Power Output	700W (1kHz, 10% THD)	250W (1kHz, 10% THD)
TUNER SECTION		
Digital Synthesizer Tuner	Yes	Yes
RDS Tuner	Yes	Yes
Station Presets	30-FM/15-AM	25-FM/15-AM
Auto Tuning	Yes	Yes
Frequency Range	FM 87.5 - 108.0MHz [50kHz step]	AM 522 - 1629kHz [9kHz step]
CD CHANGER SECTION		
5-CD Changer	Play-1 Change-4	Play-1 Change-4
Playable Type	CD, CD-R/RW*1 and MP3*2	CD, CD-R/RW*1 and MP3*2
MASH 1-bit DAC (CD)	Yes	Yes
CASSETTE DECK SECTION		
Type	Feather-touch, 1-way	Feather-touch, 1-way
TPS (Tape Program Sensor)	9-track	9-track
CONNECTION		
Universal Dock for iPod	Compatible*3	---
USB Recording from CD to Digital Audio Player	Yes	---
USB Playback	MP3*2	MP3*2
Music Port	Yes	Yes
Wireless PC Link Ready*4	Yes	---
SOUND & OTHER FEATURES		
Re-Master (Analog/Digital Processing)	Yes	Yes
D.Bass	Yes	Yes
Preset EQ	4 (Heavy, Soft, Clear, Vocal), Surround (on/off)	7 (Heavy, Soft, Clear, Vocal, Disco, Live, Hall)
Manual EQ	Yes	Yes
Subwoofer Level Control	Yes	---
Display	Fluorescent	Fluorescent
Auto Power Off	Yes	Yes
Programmable Timer	PLAY/REC/SLEEP	PLAY/REC/SLEEP
Wireless Remote Control	Yes	Yes
GENERAL		
Dimensions (W x H x D)	250 x 331 x 334 mm	250 x 331 x 342 mm
Weight	4.9 kg	4.7 kg
FRONT SPEAKER SYSTEM		
Type	2-way, 2-speaker, Bass-reflex	2-way, 2-speaker, Bass-reflex
Woofer	16cm cone type	16cm cone type
Tweeter	6cm cone type	6cm cone type
Dimensions (W x H x D)	221 x 401 x 244 mm	219 x 334 x 196 mm
Weight	3.53 kg	2.6 kg
SUBWOOFER SYSTEM		
Type	1-way, Bass-reflex	---
Subwoofer	25cm cone type	---
Dimensions (W x H x D)	320 x 411 x 330 mm	---
Weight	7.15 kg	---

*1 This unit can play CD-DA format audio CD-R and CD-RW. It may not be able to play some CD-R or CD-RW due to the condition of the recording.

*2 MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia. For contents recorded on CD-R/RW media from CDs for personal use. Playability may vary depending on conditions and discs.

*3 Optional kit SH-PD10

*4 Optional kit SH-FX570

Design and specifications are subject to change without notice.

BD Cinema Speaker System SB-TP1000 [EG/GN]

MODEL	FRONT SECTION	CENTER SECTION	FRONT SURROUND	FRONT SUBWOOFER
Number of Speakers	2	2	2	1
Configuration	3-way, 4-speaker Bass-reflex	3-way, 3-speaker Bass-reflex	2-way, 3-speaker Bass-reflex	2-speaker Bass-reflex
Woofer	8cm cone type x 2	8cm cone type	8cm cone type x 2	17cm cone type x 2
Mid Range	--	6.5cm cone type	--	--
Tweeter	2.5cm dome type	2.5cm dome type	2.5cm dome type	--
Super Tweeter	1.2cm dome type	--	--	--
Impedance	6Ω	12Ω	6Ω	--
Input Power (IEC):				
MAX	200 W	100 W	200 W	--
RATED	100 W	50 W	100 W	--
Sound Pressure Level	82.5dB/W [1.0m]	80dB/W [1.0m]	82.5dB/W [1.0m]	83dB/W [1.0m]
Frequency Range	65 Hz - 100 kHz [-16dB]	65 Hz - 50 kHz [-16dB]	65 Hz - 50 kHz [-16dB]	28 Hz - 300 Hz [-16dB]
Built-in Amp	--	--	--	• [100W x 2/ 0.9%THD]
Large Speaker Terminal	• [Bi-Wire]	•	•	--
Weight [kg]:				
With the stand	12.6	12.6	9.3	22
Wall mounted	5.4	5.4	3.7	--
Dimensions [W x H x D]:				
With the stand	279mm x 1298mm x 279mm	279mm x 1298mm x 279mm	279mm x 1298mm x 279mm	254mm x 496mm x 500mm
Wall mounted	175mm x 802mm x 102mm	175mm x 802mm x 102mm	125mm x 802mm x 87mm	254mm x 496mm x 500mm

DVD Audio Ready Slim Home Cinema Speaker System SB-TP100

MODEL	FRONT/SURROUND	CENTER	SUBWOOFER
Number of Speakers	4	1	1
Configuration	3-way, 4-speaker Bass-reflex	3-way, 5-speaker Bass-reflex	Bass-reflex
Woofer	8cm x 2	5cm x 4	17cm
Tweeter	2.5cm semi dome type	2.5cm semi dome type	--
Super Sonic Tweeter	1.2cm dome type	--	--
Input PowerMAX	200 W	200 W	--
(IEC) RATED	100 W	100 W	--
Sound Pressure Level	82.5dB/W [1.0m]	82dB/W [1.0m]	81dB/W [1.0m]
Frequency Range	80 Hz - 100 kHz [-16dB]	90 Hz - 50 kHz [-16dB]	32 Hz - 300 Hz [-16dB]
Built-in Amp	--	--	• [100W/0.9%THD]
Large Speaker Terminal	•	--	--
Magnet Shielding	•	•	--
Weight [kg]:			
With the stand	8.2	1.8	11.3
Wall mounted	4.2	--	--
Dimensions [W x H x D]:			
With the stand	296mm x (min.) 1,183mm - (max.) 1,428mm x 265mm	432mm x 66mm x 105mm	162mm x 457mm x 420mm
Wall mounted	126mm x 1,148mm x 67mm (with 5mm wall spacer)	--	--

Receiver		
MODEL	SA-BX500	
POWER OUTPUT		
Power Output at 1kHz Each Ch. Driven	Front (L/R)	150 W x 2 (6ohms, THD 1%)
	Center	150 W (6ohms, THD 1%)
	Surround (L/R)	150 W x 2 (6ohms, THD 1%)
	Surround Back (L/R)	150 W x 2 (6ohms, THD 1%)
Total Harmonic Distortion	0.3 % (6 ohms) (at 1kHz half power)	
Frequency Response	Input*1	4Hz-40kHz, ±2dB
	BD PLAYER BCH	4Hz-40kHz, ±2dB
S/N Ratio at Rated Power (6 ohms)	97dB	
FM Frequency Response	87.50 - 108.00MHz	
AM Frequency Response 9kHz steps	522 - 1629kHz	
	10kHz steps	
Dolby Digital Decoder	<ul style="list-style-type: none"> (Dolby TrueHD, Dolby Digital Plus, Dolby Digital EX) (Lix) 	
Dolby Pro Logic	<ul style="list-style-type: none"> (Lix) 	
DTS Decoder	<ul style="list-style-type: none"> (DTS-HD Master Audio, DTS-HD High Resolution Audio, DTS-HD Low Bit Rate, DTS ES, Neo-6, DTS 96/24) 	
Auto Speaker Setup	<ul style="list-style-type: none"> (Lix) 	
VIERA Link	<ul style="list-style-type: none"> (HDAVI Control 3) 	
HDMI Inputs/ Outputs	3-in, 1-out	
Component Video Inputs/ Outputs	3-in, 1-out	
S-Video Inputs/Outputs	5-in, 1-out	
Video Inputs/Outputs	5-in, 1-out	
Video Rec Output	1-out (with S-Video)	
Front Audio Input	1-in (S-Video)	
Digital Inputs	4 (3-optical, 1-coaxial)	
8-ch Discrete Inputs	<ul style="list-style-type: none"> (Lix) 	
Audio Inputs/Outputs	6-in / 1-out	
Subwoofer Output	<ul style="list-style-type: none"> (Lix) 	
RDS	<ul style="list-style-type: none"> (Lix) 	
Digital Synthesizer Tuner	<ul style="list-style-type: none"> (Lix) 	
Universal Dock for iPod /SH-PD10*2	<ul style="list-style-type: none"> (Lix) 	
Remote Control	<ul style="list-style-type: none"> (Universal) 	
Weight (kg)(Approx.)	5	
Dimensions (W x H x D) (mm)(Approx.)	430 x 158.5 x 339	

*1 CD,AUX,TV,GAME,CABLE/SAT,VCR, DVD RECORDER,BD/DVD PLAYER, Option

*2 With the purchase of SH-PD10.

* Notes:Total harmonic distortion is measured by digital spectrum analyzer.

Design and specifications subject to change without notice.

Speaker System [E]		
MODEL	SB-HS100A (Surround)	
Number of Speakers		
Configuration	1 way 1 Speaker, Bassreflex	
Speaker Unit	6.5cm Full Range	
Input Power (IEC)	MAX	125W / 3
	RATED	63W / 3
Sound Pressure Level	80dB/W (1.0m)	
Frequency Range	84Hz-25kHz(-16dB)	
Weight (kg) (Approx.)	1	
Dimensions (W x H x D) (mm) (Approx.)	121 x 328 x 129	

IC Recorder (E2)					
MODEL	RR-US950	RR-US750	RR-US490	RR-OR270	
FEATURES					
Built-in Stereo Microphone	Yes	Yes	-	-	
Built-in Zoom Microphone	Yes (4x)*1	Yes (4x)*1	Yes	-	
Security Function	Yes*2	Yes*2	Yes*2	Yes*2	
Security Folder	-	-	Yes*2	Yes*2	
Intelligent Security	-	-	Yes*2	-	
PC Link Function / USB Terminal	Yes (USB 2.0)	Yes (USB 2.0)	Yes	-	
USB Recharge*3 (2 hours)	Yes	Yes	-	-	
USB Mass Storage	Yes	Yes	-	-	
Voice Editing	Digital Transcriber	-	Yes	-	
	Speech to Text	-	Yes	-	
	Translation & Text to Speech	-	Yes	-	
Long Recording Time	EP mode: 290h 20m	EP mode: 145h	SP mode: 271h 30m	SP mode: 167h 40m	
Number of Recording Files (max.)	Voice	99 files x 4 folders	99 files x 5 folders	99 files x 5 folders	
	Music	999 files x 1 folder	999 files x 1 folder	-	
Easy Recording Setting	ZOOM, WIDE, MANUAL	ZOOM, WIDE, MANUAL	-	-	
Digital VAS Function	Yes	Yes	Yes	Yes	
Recording Modes	ST-XP/ST-LP/ST-EP/XP/LP/EP	ST-XP/ST-LP/ST-EP/XP/LP/EP	HQ/FQ/SP	HQ/FQ/SP	
Timer Recording	Yes	Yes	Yes	Yes	
Speed Control	5 steps	5 steps	5 steps	5 steps	
Recording Format	MP3*4	MP3*4	TRC (Triple Rate CODER)*5	TRC (Triple Rate CODER)*5	
Recording Sound (Stereo/Monaural)	Stereo	Stereo	Monaural	Monaural	
JACK					
Ext. MIC.	-	-	Yes	Yes	
Headphone/Earphone	Yes	Yes	Yes	Yes	
SPEAKER					
Built-in Speaker	20mm/8ohms	20mm/8ohms	20mm/8ohms	20mm/8ohms	
STANDARD ACCESSORIES					
USB Cable	Yes	Yes	Yes	-	
PC Software - Voice Editing	-	-	Ver. 2.0 Premium Edition	-	
Ni-MH Rechargeable Battery with Case	Yes	Yes	-	-	
Mini Jack Cable (f3.5mm - f3.5mm)	-	-	Yes	-	
POWER					
Output Power	50mW	50mW	300mW	300mW	
Battery	LR03 x 1, Ni-MH Rechargeable	LR03 x 1, Ni-MH Rechargeable	LR03 x 2	LR03 x 2	
Battery Life (for Recording)*6	With Alkaline Battery	30h (EP mode)	30h (EP mode)	30h (SP mode)	30h (SP mode)
	With Rechargeable Battery	20h (EP mode)	20h (EP mode)	-	-
DIMENSIONS					
(WxHxD)	33.1 x 115.0 x 14.7 mm	33.1 x 115.0 x 14.7 mm	38.8 x 105.0 x 14.0 mm	38.8 x 105.0 x 14.0 mm	
WEIGHT					
(Without Batteries)	44.0g	44.0g	39.0g	37.0g	
(With Batteries)	56.0g	56.0g	62.0g	60.0g	

*1 When this unit is aimed forward, sounds coming from front are emphasized due to magnification effect, compared with sounds coming from left and right. (When frequency value is 1 kHz)

The zoom function effects vary depending on the frequency component of recording sounds or depending on the type of noise in recording areas. Zoom microphone is operated on monaural recording.

*2 This security function is only to limit a playback function for files by password, not by encryption. We do not guarantee any kind of loss in case your password gets discovered.

*3 This product can be recharged only from the USB terminal of computers.

*4 The recording format used for this product is MP3 format. This product is not compatible with the voice editing software (Voice Editing) supplied with Panasonic IC recorders using ADPCM and TRC format.

*5 Triple Rate CODER is a registered trademark of DSP Group, Inc.

*6 With Panasonic Alkaline LR03 battery

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE, WEIGHTS AND DIMENSIONS ARE APPROXIMATE

Digital Camcorder - HD Camcorder

MODEL	HDC-SD100	HDC-HS100
GENERAL		
Power Supply	DC7.2 V/9.3 V	DC7.2 V/9.3 V
Power Consumption	5.7 W	6.7 W
Weight (w/o Battery)	320 g	420 g
Dimensions (W x H x D)	65 x 72 x 138 mm	74 x 76 x 138 mm
Media	SD/SDHC Memory Card	HDD, SD/SDHC Memory Card
On-Screen Display Language	English/ German/ French/Italian /Spanish/Dutch /Swedish/ Polish /Czech /Turkish	English/ German/ French /Italian /Spanish/Dutch /Swedish/ Polish /Czech /Turkish
IMAGE SENSOR		
Image Sensor	1/6" MOS x 3	1/6" MOS x 3
Total pixels	610 k x 3	610 k x 3
Effective pixels	520k x 3 [16:9] (Motion Image / Still Image)	520k x 3 [16:9] (Motion Image / Still Image)
LENS SECTION		
Lens Brand	Leica Dicomar	Leica Dicomar
F Value	F1.8 (WIDE)/F2.8 (TELE)	F1.8 (WIDE)/F2.8 (TELE)
Optical Zoom	12x Variable Speed Zoom (Digital: 30x - 700x)	12x Variable Speed Zoom (Digital: 30x - 700x)
Focal Length	2.95-35.4 mm	2.95-35.4 mm
Filter Diameter	37 mm	37 mm
35mm Film Camera Equivalent	42.1-505 mm [16:9] (Motion Image / Still Picture)	42.1-505 mm [16:9] (Motion Image / Still Picture)
CAMERA SECTION		
Minimum Illumination	2 Lux (1/25 Low Light Mode), 1 Lux (Colour Night View Mode)	2 Lux (1/25 Low Light Mode), 1 Lux (Colour Night View Mode)
Image Stabilizer	Advanced O.I.S.	Advanced O.I.S.
Focus	AF/Manual	AF/Manual
White Balance	Auto/Indoor1/Indoor2/Sunny/Cloudy/White Set	Auto/Indoor1/Indoor2/Sunny/Cloudy/White Set
Shutter Speed	Motion Image/ Auto Slow Shutter ON : 1/25-1/8000, OFF : 1/50-1/8000 Still Picture/ Auto Slow Shutter ON : 1/25-1/8000, OFF : 1/50-1/8000 (Progressive : 1/25-)	Motion Image/ Auto Slow Shutter ON : 1/25-1/8000, OFF : 1/50-1/8000 Still Picture/ Auto Slow Shutter ON : 1/25-1/8000, OFF : 1/50-1/8000 (Progressive : 1/25-)
Iris	Auto/Manual	Auto/Manual
Backlight Compensation	Yes	Yes
Flash	1 m-2.5 m (approx.)	1 m-2.5 m (approx.)
MONITOR		
EVF	Yes	Yes
LCD	2.7" Wide LCD (300,252 dots)	2.7" Wide LCD (300,252 dots)
STILL PICTURE		
Card Slot	SD/SDHC	SD/SDHC
Still Picture	JPEG Picture Size: 1920x 1080 [16:9] 2.1 Megapixels	JPEG Picture Size: 1920x 1080 [16:9] 2.1 Megapixels
DPOF	Max.999 stills	Max.999 stills
PictBridge	Yes	Yes
RECORDING SECTION		
Format	AVCHD (Motion Image)	AVCHD (Motion Image)
Recording Mode	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)
Playback Mode	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)
Audio Recording System	Dolby Digital (Dolby AC3) /5.1-channel	Dolby Digital (Dolby AC3) /5.1-channel
Microphone	Dolby Digital /5.1ch, Zoom Microphone	Dolby Digital /5.1ch, Zoom Microphone
Media Remaining Indication	Yes	Yes
INTERFACES		
AV	Out	Out
HDMI	Yes (mini)	Yes (mini)
S-Video	-	-
Microphone (stereo mini)	Yes	Yes
Headphones	Yes	Yes
USB	Hi-Speed USB (USB 2.0)(mini AB)	Hi-Speed USB (USB 2.0)(mini AB)
Video Component	Yes	Yes
OTHER		
Accessory Shoe	Yes (Cold)	Yes (Cold)
STANDARD ACCESSORIES		
AC Adaptor	Yes	Yes
AC Cable	Yes	Yes
DC Cable	Yes	Yes
Rechargeable Battery Pack	Lithium-Ion	Lithium-Ion
Video Component Cable	Yes	Yes
AV Cable	Yes	Yes
IR Remote	Yes	Yes
USB Cable	Yes	Yes
SD Memory Card	-	-
CD-ROM	HD Writer 2.6E	HD Writer 2.6E

*HD: High-Definition/STD: Standard-Definition •The remaining battery capacity is displayed in minutes when using the applicable Panasonic battery.
•When using batteries made by other companies the remaining battery capacity will not be shown. •We cannot accept any liability whatsoever for damages to the unit or accidents caused by non-genuine Panasonic batteries (including those that have been certified by Panasonic).

Digital Camcorder - HD Camcorder		SD Camcorder		
MODEL	HDC-SD9	HDC-HS9	SDR-SW20	SDR-S9
GENERAL				
Power Supply	DC7.2 V/9.3 V	DC7.2 V/9.3 V	DC3.6 V/5.0 V	DC4.8 V/3.6 V
Power Consumption	5.8 W	6.8 W	Recording: 2.9 W / Charging: 4.5 W	Recording: 2.9 W / Charging: 4.5 W
Weight (w/o Battery)	275 g	390 g	224 g	182 g
Dimensions (W x H x D)	65 x 67 x 126 mm	75 x 74 x 126 mm	33.8 x 63.4 x 115.4 mm	31 x 63 x 114 mm
Media	SD/SDHC Memory Card	HDD, SD/SDHC Memory Card	SD/SDHC Memory Card	SD/SDHC Memory Card
LENS SECTION				
Image Sensor	1/6" CCD x 3 Total pixels: 560 k x 3 Effective pixels: 520k x 3 [16:9] (Motion Image / Still Image)	1/6" CCD x 3 Total pixels: 560 k x 3 Effective pixels: 520k x 3 [16:9] (Motion Image / Still Image)	1/6" CCD (800 k pixels, Total/400 k [4:3], 350 k [16:9]) (Motion Image) / 410 k [4:3] (Still Picture) (Effective)	1/6" CCD (800 k pixels, Total/400 k [4:3], 350 k [16:9]) (Motion Image) / 410 k [4:3] (Still Picture) (Effective)
F Value	F1.8 (WIDE)/F2.8 (TELE)	F1.8 (WIDE)/F2.8 (TELE)	F1.8 (WIDE)/F2.4 (TELE)	F1.8 (WIDE)/F2.4 (TELE)
Optical Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom
Focal Length	3.0–30.0 mm	3.0–30.0 mm	2.3–23 mm	2.3–23 mm
Filter Diameter	37 mm	37 mm	—	—
35mm Film Camera Equivalent	42.9–429 mm [16:9] (Motion Image / Still Picture)	42.9–429 mm [16:9] (Motion Image / Still Picture)	44.1–441mm [4:3], 44.4–444mm [16:9] (Motion Image) / 43.4–434mm [4:3] (Still Picture)	44.1–441mm [4:3], 44.4–444mm [16:9] (Motion Image) / 43.4–434mm [4:3] (Still Picture)
Lens Brand	Leica Dicomar	Leica Dicomar	Panasonic	Panasonic
CAMERA SECTION				
Minimum Illumination	5 Lux (1/25 Low Light Mode), 1 Lux (Colour Night View Mode)	5 Lux (1/25 Low Light Mode), 1 Lux (Colour Night View Mode)	6 Lux (1/25 Low Light Mode), 2 Lux (Colour Night View Mode)	6 Lux (1/25 Low Light Mode), 2 Lux (Colour Night View Mode)
Focus	AF/Manual	AF/Manual	AF/Manual	AF/Manual
White Balance	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set/Underwater (with IR Sensor)	Auto/Indoor/Outdoor/White Set (with IR Sensor)
Shutter Speed	Motion Image/ 50i : Auto Slow Shutter ON : 1/25–1/8000, OFF : 1/50–1/8000 25p : Auto Slow Shutter ON : 1/25–1/8000, OFF : 1/50–1/8000 Still Picture/ 50i : Auto Slow Shutter ON : 1/25–1/8000, OFF : 1/50–1/8000 (Progressive : 1/25–) 25p : Auto Slow Shutter ON : 1/25–1/8000, OFF : 1/50–1/8000 (Progressive : 1/25–)	Motion Image/ 50i : Auto Slow Shutter ON : 1/25–1/8000, OFF : 1/50–1/8000 25p : Auto Slow Shutter ON : 1/25–1/8000, OFF : 1/50–1/8000 Still Picture/ 50i : Auto Slow Shutter ON : 1/25–1/8000, OFF : 1/50–1/8000 (Progressive : 1/25–) 25p : Auto Slow Shutter ON : 1/25–1/8000, OFF : 1/50–1/8000 (Progressive : 1/25–)	1/25–1/8000 (Motion Image), 1/25–1/500 (Still Picture)	1/50–1/8000 (Motion Image), 1/50–1/500 (Still Picture)
Iris	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
Scene Mode	Sports/Portrait/Low Light/Spot Light/Surf & Snow	Sports/Portrait/Low Light/Spot Light/Surf & Snow	Sports/Portrait/Low Light/Spot Light/Surf & Snow	Sports/Portrait/Low Light/Spot Light/Surf & Snow
Backlight Compensation	Yes	Yes	Yes	Yes
EVF	—	—	—	—
Monitor	2.7" Wide LCD (300,252 dots)	2.7" Wide LCD (300,252 dots)	2.7" Wide LCD (123,200 dots)	2.7" Wide LCD (123,200 dots)
Microphone	Dolby Digital / 5.1ch, Zoom Microphone	Dolby Digital / 5.1ch, Zoom Microphone	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction
Date Recording	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)
Fade In/Out	Yes	Yes	Yes	Yes
Rec. Review	—	—	—	—
On-Screen Display Language	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish
Image Stabilizer	Advanced O.I.S.	Advanced O.I.S.	E.I.S. (Electronic Image Stabilizer)	E.I.S. (Electronic Image Stabilizer)
Digital Zoom	25 x–700 x	25 x–700 x	10 x–700 x	10 x–700 x
LED Video Light	—	—	—	—
Flash	1 m–2.5 m (approx.)	1 m–2.5 m (approx.)	—	—
Web Camera Function	—	—	—	—
DISC SECTION				
Applicable Disc	—	—	—	—
Cue/Review	—	—	—	—
Skip	—	—	—	—
CARD SECTION				
Card Slot	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC
Still Picture	JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixels	JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels
DPOF	Max.999 stills	Max.999 stills	Max.999 stills	Max.999 stills
PictBridge	Yes	Yes	Yes	Yes
RECORDING SECTION				
Format	AVCHD (Motion Image)	AVCHD (Motion Image)	MPEG2 (Motion Image)	MPEG2 (Motion Image)
Recording Mode	HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)
Playback Mode	HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HE (6 Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)
Variable Speed Search	—	—	—	—
Audio Recording System	Dolby Digital (Dolby AC3) / 5.1-channel	Dolby Digital (Dolby AC3) / 5.1-channel	MPEG1-Layer2	MPEG1-Layer2
Audio Dubbing	—	—	—	—
Counter	Yes	Yes	Yes	Yes
Media Remaining Indication	Yes	Yes	Yes	Yes
INTERFACES				
AV	Out	Out	Out	Out
HDMI	Yes (mini)	Yes (mini)	—	—
S-Video	—	—	—	—
Microphone (stereo mini)	—	—	—	—
Headphones	—	—	—	—
DV Input/Output (IEEE1394)	—	—	—	—
USB	Hi-Speed USB (USB 2.0)(mini AB)	Hi-Speed USB (USB 2.0)(mini AB)	Hi-Speed USB (USB2.0) (mini AB)	Hi-Speed USB (USB2.0) (mini B)
Video Component	Yes	Yes	—	—
Accessory Shoe	—	—	—	—
STANDARD ACCESSORIES				
AC Adaptor	Yes	Yes	Yes	Yes
AC Cable	Yes	Yes	Yes	Yes
DC Cable	Yes	Yes	Yes	Yes
Rechargeable Battery Pack	Lithium-Ion	Lithium-Ion	Lithium-Ion	Lithium-Ion
Strap	—	—	Yes (Hand Strap)	Yes (Hand Strap)
Video Component Cable	Yes	Yes	—	—
AV Cable	Yes	Yes	Yes	Yes
Lens Cap	—	—	—	—
IR Remote	Yes	Yes	—	—
USB Cable	Yes	Yes	Yes	Yes
SD Memory Card	—	—	—	—
CD-ROM	HD Writer 2.5E	HD Writer 2.5E	Motion SD STUDIO 1.3E	Motion SD STUDIO 1.3E

*HD: High-Definition/STD: Standard-Definition •The remaining battery capacity is displayed in minutes when using the applicable Panasonic battery. •When using batteries made by other companies the remaining battery capacity will not be shown. •We cannot accept any liability whatsoever for damages to the unit or accidents caused by non-genuine Panasonic batteries (including those that have been certified by Panasonic).

Digital Camcorder - SD Camcorder		HDD Camcorder		
MODEL	SDR-S7	SDR-H280	SDR-H60	SDR-H40
GENERAL				
Power Supply	DC3.6 V/5.0 V	DC7.9 V/7.2 V	DC7.2 V/9.3 V	DC7.2 V/9.3 V
Power Consumption	Recording: 2.9 W / Charging: 4.5 W	5.7 W	4.0 W	4.0 W
Weight (w/o Battery)	165 g	450g	340 g	340 g
Dimensions (W x H x D)	41 x 59 x 102 mm	70.1 x 73 x 120.8 mm	67 x 70 x 116 mm	67 x 70 x 116 mm
Media	SD/SDHC Memory Card	30GB HDD, SD/SDHC Memory Card	60GB HDD, SD/SDHC Memory Card	40GB HDD, SD/SDHC Memory Card
LENS SECTION				
Image Sensor	1/6" CCD [800 k pixels, Total/400 k [4:3], 350 k [16:9]](Motion Image)/410 k [4:3] (Still Picture)Effective	1/6" CCD x 3 [800 k x 3 pixels, Total/430 k x 3 [4:3], 540 k x 3 [16:9] (Motion Image)/710 k x 3 [4:3], 540 k x 3 [16:9] (Still Picture) Effective]	1/6" CCD [800 k pixels, Total/400 k [4:3], 370 k [16:9] (Motion Image)/410 k [4:3], 380 k [16:9] (Still Picture) Effective]	1/6" CCD [800 k pixels, Total/400 k [4:3], 370 k [16:9] (Motion Image)/410 k [4:3], 380 k [16:9] (Still Picture) Effective]
F Value	F1.8 (WIDE)/F2.4 (TELE)	F1.8 (WIDE)/F2.8 (TELE)	F2.0 (WIDE)/F5.0 (TELE)	F1.9 (WIDE)/F4.3 (TELE)
Optical Zoom	10x Variable Speed Zoom	10 x Variable Speed Zoom	50 x Variable Speed Zoom	42 x Variable Speed Zoom
Focal Length	2.3–23 mm	3.0–30 mm	1.8–90 mm	1.8–75.6 mm
Filter Diameter	—	37 mm	—	—
35mm Film Camera Equivalent	44.1–441mm [4:3], 44.4–444mm [16:9](Motion Image)/43.4–434mm [4:3](Still Picture)	46.1–461 mm [4:3]/47.1 – 471 mm [16:9] (Motion Image) 43.4 – 434 mm [4:3]/47.0 – 470 mm [16:9] (Still Picture)	34.5 – 1725 mm [4:3]/33.8 – 1690 mm [16:9] (Motion Image) 33.9 – 1696 mm [4:3]/33.2 – 1658 [16:9] (Still Picture)	34.5 – 1449 mm [4:3]/33.8 – 1420 mm [16:9] (Motion Image) 33.9 – 1425 mm [4:3]/33.2 – 1393 [16:9] (Still Picture)
Lens Brand	Panasonic	Leica Dicomar	Panasonic	Panasonic
CAMERA SECTION				
Minimum Illumination	2 Lux (Colour Night View Mode)	1 lux (Colour Night View Mode)	2 lux (Colour Night View Mode)	2 lux (Colour Night View Mode)
Focus	AF/Manual	AF/Manual	AF/Manual	AF/Manual
White Balance	Auto/Indoor/Outdoor/White Set (with IR Sensor)	Auto/Indoor/Outdoor/White Set (with IR Sensor)	Auto/Indoor/Outdoor/White Set (with IR Sensor)	Auto/Indoor/Outdoor/White Set (with IR Sensor)
Shutter Speed	1/25–1/8000 (Motion Image), 1/25–1/500 (Still Picture)	1/50–1/8000 (Motion Image), 1/25–1/2000 (Still Picture)	1/25 - 1/8000 (Motion Image), 1/25 - 1/500 (Still Picture)	1/25 - 1/8000 (Motion Image), 1/25 - 1/500 (Still Picture)
Iris	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
Scene Mode	Sports/Portrait/Low Light/Spot Light/Surf & Snow	Sports/Portrait/Low Light/Spot Light/Surf & Snow	Sports/Portrait/Low Light/Spot Light/Surf & Snow	Sports/Portrait/Low Light/Spot Light/Surf & Snow
Backlight Compensation	Yes	Yes	Yes	Yes
EVF	—	—	—	—
Monitor	2.7" Wide LCD (123,200 dots)	2.7" Wide LCD (123,200 dots)	2.7" Wide LCD (123,200 dots)	2.7" Wide LCD (123,200 dots)
Microphone	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction
Date Recording	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)
Fade In/Out	Yes	Yes	Yes	Yes
Rec. Review	—	—	—	—
On-Screen Display Language	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish
Image Stabilizer	E.I.S. (Electronic Image Stabilizer)	O.I.S.	Advanced O.I.S.	Advanced O.I.S.
Digital Zoom	10 x–700 x	25 x–700 x	50 x–2500 x	42 x–2000 x
LED Video Light	—	Yes	—	—
Flash	—	—	—	—
Web Camera Function	—	—	—	—
DISC SECTION				
Applicable Disc	—	—	—	—
Cue/Review	—	—	—	—
Skip	—	—	—	—
CARD SECTION				
Card Slot	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC
Still Picture	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels	JPEG Picture size: 1920 x 1080 [16:9] 2.0 Megapixels or 1280 x 960 [4:3] 1.0 Megapixels or 640 x 480 [4:3] 0.3 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels or 640 x 360 [16:9] 0.2 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels or 640 x 360 [16:9] 0.2 Megapixels
DPOF	Max.999 stills	Max.999 stills	Max.999 stills	Max.999 stills
PictBridge	Yes	Yes	Yes	Yes
RECORDING SECTION				
Format	MPEG2 [Motion Image]	MPEG2 [Motion Image]	MPEG2 [Motion Image]	MPEG2 [Motion Image]
Recording Mode	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)
Playback Mode	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)
Variable Speed Search	—	—	—	—
Audio Recording System	MPEG1-Layer2	Dolby Digital (2 ch) / MPEG1 AudioLayer2	Dolby Digital (2 ch) / MPEG1 AudioLayer2	Dolby Digital (2 ch) / MPEG1 AudioLayer2
Audio Dubbing	—	—	—	—
Counter	Yes	Yes	Yes	Yes
Media Remaining Indication	Yes	Yes	Yes	Yes
INTERFACES				
AV	Out	Out	Out	Out
HDMI	—	—	—	—
S-Video	—	Out	—	—
Microphone (stereo mini)	—	—	—	—
Headphones	—	—	—	—
DV Input/Output (IEEE1394)	—	—	—	—
USB	Hi-Speed USB (USB2.0) [mini AB]	Hi-Speed USB (USB2.0) [mini B]	Hi-Speed USB (USB 2.0) [mini AB]	Hi-Speed USB (USB 2.0) [mini AB]
Video Component	—	—	—	—
Accessory Shoe	—	—	—	—
STANDARD ACCESSORIES				
AC Adaptor	Yes	Yes	Yes	Yes
AC Cable	Yes	Yes	Yes	Yes
DC Cable	Yes	Yes	Yes	Yes
Rechargeable Battery Pack	Lithium-Ion	Lithium-Ion	Lithium-Ion	Lithium-Ion
Strap	Yes (Hand Strap)	—	—	—
Video Component Cable	—	—	—	—
AV Cable	Yes	Yes	Yes	Yes
Lens Cap	—	—	—	—
IR Remote	—	Yes	—	—
USB Cable	Yes	Yes	Yes	Yes
SD Memory Card	—	—	—	—
CD-ROM	Motion SD STUDIO 1.3E	VideoCam Suite 1.0	VideoCam Suite 1.0	VideoCam Suite 1.0

*HD: High-Definition/STD: Standard-Definition •The remaining battery capacity is displayed in minutes when using the applicable Panasonic battery. •When using batteries made by other companies the remaining battery capacity will not be shown. •We cannot accept any liability whatsoever for damages to the unit or accidents caused by non-genuine Panasonic batteries (including those that have been certified by Panasonic).

Digital Camcorder - DVD Camcorder		Mini DV Camcorder	
MODEL	VDR-D50	NV-GS330	NV-GS90
GENERAL			
Power Supply	DC7.2 V/9.3 V	DC7.2 V/7.9 V	DC7.2 V/9.3 V
Power Consumption	5.9 W	5.2 W	4.1 W
Weight (w/o Battery)	400 g	450 g	390 g
Dimensions (W x H x D)	52.8 x 89.5 x 128.6 mm	83.6 x 76.5 x 145.1 mm	67 x 84.5 x 119.3 mm
Media	8-cm DVD Disc, SD/SDHC Memory Card	miniDV, SD/SDHC Memory Card	miniDV
LENS SECTION			
Image Sensor	1/6" CCD (800 k pixels, Total/400 k [4:3], 370 k [16:9] (Motion Image)/410 k [4:3], 380 k [16:9] (Still Picture) Effective)	1/6" CCD x 3 (800 k x 3 pixels, Total/430 k x 3 [4:3], 540 k x 3 [16:9] (Motion Image)/710 k x 3 [4:3], 540 k x 3 [16:9] (Still Picture) Effective)	1/6" CCD (800 k pixels, Total/400 k [4:3], 370 k [16:9] (Motion Image)/410 k [4:3], 380 k [16:9] (Still Picture) Effective)
F Value	F1.9 (WIDE)/F4.3 (TELE)	F1.8 (WIDE)/F2.8 (TELE)	F1.9 (WIDE)/F4.3 (TELE)
Optical Zoom	42 x Variable Speed Zoom	10 x Variable Speed Zoom	42 x Variable Speed Zoom
Focal Length	1.8–75.6 mm	3.0–30 mm	1.8–75.6 mm
Filter Diameter	—	37 mm	—
35mm Film Camera Equivalent	34.5 – 1449 mm [4:3]/33.8 – 1420 mm [16:9] (Motion Image) 33.9 – 1425 mm [4:3]/33.2 – 1393 [16:9] (Still Picture)	46.1–461 mm [4:3]/47.1 – 471 mm [16:9] (Motion Image) 43.4 – 434 mm [4:3]/47.0 – 470 mm [16:9] (Still Picture)	34.5 – 1449 mm [4:3]/33.8 – 1420 mm [16:9] (Motion Image) 33.9 – 1425 mm [4:3]/33.2 – 1393 [16:9] (Still Picture)
Lens Brand	Panasonic	Leica Dicomar	Panasonic
CAMERA SECTION			
Minimum Illumination	2 lux (Colour Night View Mode)	1 lux (Colour Night View Mode)	2 lux (Colour Night View Mode)
Focus	AF/Manual	AF/Manual	AF/Manual
White Balance	Auto/Indoor/Outdoor/White Set (with IR Sensor)	Auto/Indoor/Outdoor/White Set (with IR Sensor)	Auto/Indoor/Outdoor/White Set (with IR Sensor)
Shutter Speed	1/25–1/8000 (Motion Image) 1/25–1/500 (Still Picture)	1/50–1/8000 (Motion Image) 1/25–1/2000 (Still Picture)	1/25–1/8000 (Motion Image)
Iris	Auto/Manual	Auto/Manual	Auto/Manual
Scene Mode	Sports/Portrait/Low Light/Spot Light/Surf & Snow	Sports/Portrait/Low Light/Spot Light/Surf & Snow	Sports/Portrait/Low Light/Spot Light/Surf & Snow
Backlight Compensation	Yes	Yes	Yes
EVF	0.33" Colour (113,578 dots)	0.33" Colour (113,578 dots)	0.33" Colour (113,578 dots)
Monitor	2.7" Wide LCD (123,200 dots)	2.7" Wide LCD (123,200 dots)	2.7" Wide LCD (123,200 dots)
Microphone	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction
Date Recording	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)
Fade In/Out	Yes	Yes	Yes
Rec. Review	—	Yes	Yes
On-Screen Display Language	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish	English / German / French / Italian / Spanish / Dutch / Swedish / Polish / Czech / Turkish
Image Stabilizer	Advanced O.I.S.	O.I.S.	Advanced O.I.S.
Digital Zoom	42 x–2000 x	10 x–700 x	42 x–2000 x
LED Video Light	—	—	Yes
Flash	—	—	—
Web Camera Function	—	Motion JPEG 320 x 240 approx. 6 fps	Motion JPEG 320 x 240 approx. 6 fps
DISC SECTION			
Applicable Disc	8-cm DVD-RAM Ver. 2.1/8-cm DVD-R for General Ver. 2.0/ 8-cm DVD-RW Ver. 1.1 2 x-speed (2 x/1 x)/DVD-R for DL Ver. 3.0	—	—
Cue/Review	Forward/Reverse	—	—
Skip	Forward/Reverse	—	—
CARD SECTION			
Card Slot	SD/SDHC	SD/SDHC	—
Still Picture	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels or 640 x 360 [16:9] 0.2 Megapixels	JPEG Picture size: 2048 x 1512 [4:3] 3.1 Megapixels or 2048 x 1152 [16:9] 2.4 Megapixels or 1600 x 1200 [4:3] 2.0 Megapixels or 1280 x 960 [4:3] 1.0 Megapixels or 640 x 480 [4:3] 0.3 Megapixels or 640 x 360 [16:9] 0.2 Megapixels	—
DPOF	Max 999 stills	Max 999 stills	—
PictBridge	Yes	Yes	—
RECORDING SECTION			
Format	MPEG2 (Motion Image)	DVC-SD	DVC
Recording Mode	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	SP / LP	SP / LP
Playback Mode	XP (10Mbps / VBR), SP (5Mbps / VBR), LP (2.5Mbps / VBR)	SP / LP	SP / LP
Variable Speed Search	—	Max. 20 x Speed	Max. 20 x Speed
Audio Recording System	Dolby Digital (2 ch)	PCM 12 bit 4 ch/ 16 bit 2 ch	PCM 12 bit 4 ch/ 16 bit 2 ch
Audio Dubbing	—	Yes (only inner mic)	—
Counter	Yes	Time Code	Time Code
Media Remaining Indication	Yes	Yes	Yes
INTERFACES			
AV	Out	Out	Out
HDMI	—	—	—
S-Video	—	Out	—
Microphone (stereo mini)	—	—	—
Headphones	—	—	—
DV Input/Output (IEEE1394)	—	Out	Out
USB	Hi-Speed USB (USB2.0) (mini B)	Hi-Speed USB (USB2.0) (mini B)	Full-Speed (mini B)
Video Component	—	—	—
Accessory Shoe	—	Yes (Cold)	—
STANDARD ACCESSORIES			
AC Adaptor	Yes	Yes	Yes
AC Cable	Yes	Yes	Yes
DC Cable	Yes	Yes	Yes
Rechargeable Battery Pack	Lithium-Ion	Lithium-Ion	Lithium-Ion
Strap	—	—	—
Video Component Cable	—	—	—
AV Cable	Yes	Yes	Yes
Lens Cap	—	Yes	—
IR Remote	—	Yes	—
USB Cable	Yes	Yes	—
SD Memory Card	—	—	—
CD-ROM	VideoCam Suite 1.0	Sweet Movie Life 1.1E/ MotionDV STUDIO 6.0E LE for DV	—

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Lumix - Digital Still Camera

MODEL	DMC-FZ28	DMC-TZ5	DMC-LX3	DMC-FX500
Camera Effective Pixels	10.1 megapixels	9.1 megapixels	10.1 megapixels	10.1 megapixels
CCD Sensor	1/2.33" (10.7 megapixels total) Primary Colour Filter	1/2.33" (10.7 megapixels total) Primary Colour Filter	1/1.63" (11.3 megapixels total) Primary Colour Filter	1/2.33" (10.7 megapixels total) Primary Colour Filter
Lens	LEICA DC VARIO-ELMARIT 11 elements in 8 groups (3 aspherical lenses, 2 ED lenses)	LEICA DC VARIO-ELMAR 11 elements in 9 groups (3 aspherical lenses, 1 ED Lens)	LEICA DC VARIO-SUMMICRON 8 elements in 6 groups (4 aspherical lenses)	LEICA DC VARIO-ELMARIT 7 elements in 6 groups (4 aspherical lenses)
Optical Zoom	18x	18x	2.5x	5x
Extra Optical Zoom (Max.)	32.1x (In 3-megapixel resolution mode.)	16.9x (In 3-megapixel resolution mode.)	4.5x (In 3-megapixel resolution mode.)	8.9x (In 3-megapixel resolution mode.)
Digital Zoom	4x (Max. 128x combined with Extra Optical Zoom)	4x (Max. 67.5x combined with Extra Optical Zoom)	4x (Max. 17.9x combined with Extra Optical Zoom)	4x (Max. 35.6x combined with Extra Optical Zoom)
Focal Length	f = 4.8 - 86.4 mm (35 mm equiv.: 27 - 486 mm)	f = 4.7 - 47 mm (35 mm equiv.: 28 - 280 mm)	f = 5.1 - 12.8 mm (35 mm equiv.: 24 - 60 mm)	f = 4.4 - 22 mm (35 mm equiv.: 25 - 125 mm)
Optical Image Stabilizer	MEGA O.I.S. (Auto/Model/Mode2) Yes (requires lens adopter DMW-LA3)	MEGA O.I.S. (Model/Mode2)	MEGA O.I.S. (Auto/Model/Mode2) Yes (requires lens adopter DMW-LA4)	MEGA O.I.S. (Model/Mode2)
Conversion Lens	Normal: 30 cm (W)/200 cm (T) - ∞ Intelligent AUTO/Macro: 1 cm (W)/200 cm (T) - ∞ Tele Macro: 11 - 18x (T): 100 cm - ∞	Normal: 50 cm (W)/200 cm (T) - ∞ Macro/Intelligent Auto/Clipboard (except tele end): 5 cm (ft) (W)/200 cm (T) - ∞ Tele Macro: 100 cm - ∞	Normal: 50 cm (W)/50 cm (T) - ∞ MF/Intelligent AUTO/Macro: 1 cm (W)/30 cm (T) - ∞	Normal: 50 cm - ∞ Macro/Intelligent AUTO: 5 cm (W)/100 cm (T) - ∞
Focus	Normal/Macro, Quick AF On/Off (On in Intelligent AUTO), Continuous AF On/Off, AF/MF switchable, Manual Focus (Joystick), One Shot AF, AF Area Select, AF Tracking	Normal/Macro, Continuous AF On/Off	Normal/Macro, Quick AF On/Off (On in Intelligent AUTO), Continuous AF On/Off, AF/MF switchable, Manual Focus (Joystick), One Shot AF, AF Area Select, AF Tracking	Normal/Macro, Quick AF, Touch AF/AE, AF Tracking
AF Metering	Face/AF Tracking/Multi-area/1-area high-speed/1-area/Spot	Face/9-area/3-area high-speed/1-area high-speed/1-area/Spot	Face/AF Tracking/Multi-area/1-area high-speed/1-area/Spot	Face/9-area/3-area high-speed/1-area high-speed/1-area/Spot/Touch area
AF Assist Lamp	Yes	Yes	Yes	Yes
ISO Sensitivity	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)	Auto/80/100/200/400/800/1600/3200 (High Sensitivity mode: 1600 - 6400)	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)
White Balance	Auto/Daylight/Cloudy/Shade/Flash/Halogen/Colour temperature / White Set 1+2; 2-axis adjustable in +/- 9 steps	Auto/Daylight/Cloudy/Shade/Halogen/White Set; Adjustable in +/- 10 steps (except Auto)	Auto/Daylight/Cloudy/Shade/Flash/Halogen/Colour temperature / White Set 1+2; 2-axis adjustable in +/- 9 steps	Auto/Daylight/Cloudy/Shade/Halogen / White Set; Adjustable in +/- 10 steps (except Auto)
Exposure	Program AE, Aperture Priority AE, Shutter Priority AE, Manual	Program AE	Program AE, Aperture Priority AE, Shutter Priority AE, Manual	Program AE, Aperture Priority AE,
Scene Mode	Intelligent AUTO/P/A/S/M/Custom 1+2/Portrait (Normal/Soft Skin/Outdoor/Indoor/Creative)/Scenery (Normal/Nature/Architecture/Creative)/Sports (Normal/Outdoor/Indoor/Creative)/Night Portrait (Night Portrait/Night Scenery/Illuminations/Creative)/Close-up (Flower/Food/Objects/Creative)/SCN (Party/Candle Light/Baby+2/Pet/Sunset/High Sensitivity/Hi-Speed Burst [Speed Priority/Image Priority]/Flash Burst/Panning/Starry Sky/Fireworks/Beach/Snow/Aerial Photo/Pin Hole/Film Grain)/Motion Picture	Intelligent AUTO/Normal/Motion Picture/Clipboard/SCN1+2 (Portrait/Soft Skin/Self-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Baby+2/Pet/Sunset/High Sensitivity/Hi-Speed Burst/Starry Sky/Fireworks/Beach/Snow/Aerial Photo/Underwater/Multi-Aspect)	Intelligent AUTO/P/A/S/M/Motion Picture/Custom 1+2/SCN (Portrait/Soft Skin/Self-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Baby+2/Pet/Sunset/High Sensitivity/Starry Sky/Fireworks/Beach/Snow/Aerial Photo/Hi-Speed Burst/Flash-Burst/Film Grain/Pin Hole)	Shutter Priority AE, Manual Intelligent AUTO/P/A/S/Motion Picture/SCN (Portrait/Soft Skin/Set-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Fireworks/Starry Sky/Beach/Aerial Photo/Snow/High Sensitivity/Baby+2/Sunset/Pet/Hi-Speed Burst)
Exposure Compensation	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV
Backlight Compensation	Yes (auto in Intelligent AUTO mode)	Yes (in Intelligent AUTO mode)	Yes (auto in Intelligent AUTO mode)	Yes (in Intelligent AUTO mode)
Auto (AE) Bracketing	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames
Light Metering	Intelligent Multiple/Center Weighted/Spot	Intelligent Multiple/Center Weighted/Spot	Intelligent Multiple/Center Weighted/Spot	Intelligent Multiple/Center Weighted/Spot
Aperture	Wide: F2.8 - F8.0; Tele: F4.4 - F8.0	2 steps: F3.3/F8.0 (W), F4.9/F11 (T)	Wide: F2.0 - F8.0; Tele: F2.8 - F8.0	Wide: F2.8 - F8.0; Tele: F5.9 - F8.0
Shutter Speed	60 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	8 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	60 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	60 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)
Self Timer	10 sec/10 sec (continuous 3 pictures)/2 sec	10 sec/2 sec	10 sec/2 sec	10 sec/2 sec
Picture Adjustment	Contrast/Sharpness/Saturation/Noise Reduction	-	Contrast/Sharpness/Saturation/Noise Reduction	Contrast/Sharpness/Saturation/Noise Reduction
Colour Effect/Colour Mode	Black & White/Sepia/Cool/Warm	Standard/Natural/Vivid/Black & White/Sepia/Cool/Warm	In Film mode: Standard, Dynamic, Natural, Smooth, Vibrant, Nostalgic, WB/Standard, WB/Dynamic, WB/Smooth, My Film1, MyFilm2, Multi Film	Black & White/Sepia/Cool/Warm
Recording Formats	Still Pictures: JPEG (DCF, Exif2.21 compliant), RAW, DPOF compatible, Pictures w/ Audio: JPEG (DCF, Exif2.21 compliant) + QuickTime, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Pictures w/ Audio: JPEG (DCF, Exif2.21 compliant) + QuickTime, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), RAW, DPOF compatible, Pictures w/ Audio: JPEG (DCF, Exif2.21 compliant) + QuickTime, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Pictures w/ Audio: JPEG (DCF, Exif2.21 compliant) + QuickTime, Motion Picture: QuickTime Motion JPEG
Recording Pixels (Still Images)	[4:3] 3648 x 2736, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3648 x 2432, 3072 x 2048, 2560 x 1712, 2048 x 1360; [16:9] 3648 x 2056, 3072 x 1728, 2560 x 1440, 1920 x 1080	[4:3] 3456 x 2592, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3552 x 2368, 3072 x 2048, 2560 x 1712, 2048 x 1360; [16:9] 3712 x 2088, 3072 x 1728, 2560 x 1440, 1920 x 1080	[4:3] 3648 x 2736, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3776 x 2520, 3168 x 2112, 2656 x 1768, 2112 x 1408, 2048 x 1360; [16:9] 3968 x 2232, 3328 x 1872, 2784 x 1568, 2208 x 1248, 1920 x 1080	[4:3] 3648 x 2736, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3648 x 2432, 3072 x 2048, 2560 x 1712, 2048 x 1360; [16:9] 3648 x 2056, 3072 x 1728, 2560 x 1440, 1920 x 1080
Image Quality	Fine/Standard/RAW/RAW+Fine	Fine/Standard	Fine/Standard/RAW/RAW+Standard/JPEG/RAW+Fine/JPEG	Fine/Standard
Motion Picture	[4:3] 640 x 480 pixels at 30fps/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 fps, [16:9 HD] 1280 x 720 pixels at 30 or 15 fps	[4:3] 640 x 480/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 or 10 fps, [16:9 HD] 1280 x 720 pixels at 30 or 15 fps	[4:3] 640 x 480 pixels at 30fps/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 fps, [16:9 HD] 1280 x 720 pixels at 24 fps	[4:3] 640 x 480/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 or 10 fps, [16:9 HD] 1280 x 720 pixels at 30 or 15 fps
Burst Shooting (with full resolution)	2.5 fps, Up to 5 (Standard)/3 (Fine) pictures	2.5 fps, Up to 5 (Standard)/3 (Fine) pictures	2.5 fps, Up to 8 (Standard)/4 (Fine) pictures	2.5 fps, Up to 5 (Standard)/3 (Fine) pictures
Unlimited* Consecutive Shooting	Yes	Yes	Yes	Yes
Built-in-Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off, Flash Synchro 1st/2nd; Flash Output Adjustment: -2 - +2 EV in 1/3 EV steps	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off; Flash Synchro 1st/2nd; Flash Output Adjustment: -2 - +2 EV in 1/3 EV steps	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off
Digital Red-eye Correction	Yes	Yes	Yes	Yes
Flash Range (in ISO Auto)	0.3 - 8.5 m (W)/1.0 - 5.4 m (T)	0.6 - 5.3 m (W)/1.0 - 3.6 m (T)	0.8 - 8.3 m (W)/0.3 - 5.9 m (T)	0.6 - 6.0 m (W)/1.0 - 2.8 m (T)
External Flash	-	-	Hot Shoe (TTL Auto)	-
Viewfinder	0.20" Colour EVF [201.6k dots equiv.], Approx. 100% coverage	-	External Viewfinder (optional)	-
LCD Monitor	2.7" TFT LCD (230k dots), Approx. 100% coverage	3.0" Polycrystalline TFT LCD (460k dots), Approx. 100% coverage	3.0" Polycrystalline TFT LCD (460k dots), Approx. 100% coverage	3.0" TFT LCD (230k dots), Approx. 100% coverage
Playback Mode	30/12-thumb nail display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting, Creating still pictures from a motion picture, Enlarge focus area, Image leveling	30/12-thumb nail display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting, Creating still pictures from a motion picture, Dual image playback	30/12-thumb nail display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting, Creating still pictures from a motion picture, Dual image playback, Enlarge focus area, Image leveling	30/12-thumb nail display, Calendar display, Easy Organization (Favorites, Delete, Title Edit, Trimming, Resize) Touch Zoom Playback, Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Protection, Aspect conversion, DPOF print setting, Creating still pictures from a motion picture, Dual image playback
Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard
Built-in Memory	Approx. 50 MB	Approx. 50 MB	Approx. 50 MB	Approx. 50 MB
Microphone / Speaker	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes
Interface	DC Input, AV Output (NTSC/PAL), HD AV Output (component), USB 2.0 High Speed	DC Input, AV Output (NTSC/PAL), HD AV Output (component), USB 2.0 High Speed	DC Input, AV Output (NTSC/PAL), HD AV Output (component), USB 2.0 High Speed	DC Input, AV Output (NTSC/PAL), HD AV Output (component), USB 2.0 High Speed
Direct Print	PictBridge	PictBridge	PictBridge	PictBridge
Power Sources	Li-ion Battery Pack (7.2 V, 710 mAh), AC Adapter (optional)	Li-ion Battery Pack (3.7 V, 1000 mAh), AC Adapter (optional)	Li-ion Battery Pack (3.7 V, 1150 mAh), AC Adapter (optional)	Li-ion Battery Pack (3.6 V, 1000 mAh), AC Adapter (optional)
Battery Life (Approx.) (CIPA**)	460 pictures	300 pictures	380 pictures	280 pictures
Dimensions (Approx.) (W x H x D)	117.6 x 75.3 x 88.9 mm (4.63 x 2.96 x 3.5 inch)	103.3 x 59.3 x 36.5 mm (4.07 x 2.33 x 1.44 inch)	108.7 x 59.5 x 27.1 mm (4.28 x 2.34 x 1.07 inch)	94.9 x 57.1 x 22.9 mm (3.74 x 2.25 x 0.90 inch)
Weight (Approx.) (camera body only)	370 g (0.82 lb)	214 g (0.47 lb)	229 g (0.50 lb)	155 g (0.34 lb)
Included Software	PHOTOfunSTUDIO - viewer- 2.1 E, SILKPIX® Developer Studio 3.0 SE, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO - viewer- 2.0 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO - viewer- 2.1 E, SILKPIX® Developer Studio 3.0 SE, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO - viewer- 2.0 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver
Standard Accessories	Battery Charger, Battery Pack, Lens Cap, Lens Hood, Hood Adapter, AC Cable, AV Cable, USB Cable, Shoulder Strap, CD-ROM	Battery Charger, Battery Pack, Battery Carrying Case, AC Cable, AV Cable, USB Cable, Strap, CD-ROM	Battery Charger, Battery Pack, Battery Carrying Case, Lens Cap, Lens Cap Strap, AC Cable, AV Cable, USB Cable, Shoulder Strap, CD-ROM	Stylus Pen, Battery Charger, Battery Pack, Battery Carrying Case, AC Cable, AV Cable, USB Cable, Strap, CD-ROM

*Number of shots may vary depending on memory card size, battery power, picture size, and compression. The consecutive shooting speed varies depending on the shooting conditions and memory card. **Based on the CIPA standard. Using a Panasonic SD Memory Card and supplied batteries. The CIPA (Camera & Imaging Products Association) creates standards for measuring battery life. CIPA measurement method: Switch on the power and LCD, begin shooting in 30 seconds, switch between telephoto and wide-angle every 30 seconds, fire the flash every other shot. After each series of 10 shots, turn the camera off until the battery is completely low. Ambient conditions: 23°C temperature and 50% humidity. The battery life differs depending on the condition of storage or use, and the environment. The number of recordable pictures varies depending on the recording interval time. If the recording interval time becomes longer, the number of recordable pictures decreases.

© 2011 Panasonic Corporation. PHOTOfunSTUDIO - viewer - Requires Microsoft® Windows® XP or Vista®. ArcSoft® PhotoImpression™, PhotoImpression™, Panorama Maker™, Requires Microsoft® Windows® 98/98SE/Me/2000/XP or Apple® Mac OS® 9 or X (Classic mode), ArcSoft® MediaImpression™, Requires Microsoft® Windows® 2000/XP/ Vista® or Apple® Mac OS® 9 or X (Classic mode) or newer (Version 10.3 or later is recommended). For some previous models, please confirm compatibility with Microsoft® Windows Vista® on the following website: <http://panasonic.jp/support/global/cs/dsc/> *Weight and dimensions shown are approximate. *Design, functions, and specifications are subject to change without notice. *Some sample images are simulated. *Some accessories are not available in some countries. *The use of recording or printed materials that are protected by copyright for any purpose other than personal enjoyment is prohibited, as it would infringe upon the rights of the copyright holder. *Leica is a registered trademark of Leica Microsystems IR GmbH. *Summicron, Elmarit, and Elmar are registered trademarks of Leica Camera AG. *LEICA DC lenses are manufactured using measurement instruments and quality assurance systems that have been certified by Leica Camera AG based on the company's quality standards. *Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. *Apple® and Mac OS® are either registered trademarks or trademarks of Apple, Inc. in the United States and/or other countries. *QuickTime and the QuickTime logo are trademarks or registered trademarks of Apple, Inc., used under license therefrom. *Other names of systems and products mentioned in this brochure are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

Lumix - Digital Still Camera

MODEL	DMC-FX150	DMC-FX37	DMC-FS20	DMC-F55
Camera Effective Pixels	14.7 megapixels	10.1 megapixels	10.1 megapixels	10.1 megapixels
CCD Sensor	1/1.72" (15.0 megapixels total) Primary Colour Filter	1/2.33" (10.7 megapixels total) Primary Colour Filter	1/2.33" (10.7 megapixels total) Primary Colour Filter	1/2.33" (10.7 megapixels total) Primary Colour Filter
Lens	LEICA DC VARIO-ELMARIT 7 elements in 6 groups (4 aspherical lenses)	LEICA DC VARIO-ELMARIT 7 elements in 6 groups (4 aspherical lenses)	LEICA DC VARIO-ELMAR 7 elements in 6 groups (3 aspherical lenses)	LEICA DC VARIO-ELMAR 7 elements in 6 groups (3 aspherical lenses)
Optical Zoom	3.6x	5x	4x	4x
Extra Optical Zoom (Max.)	7.7x (In 3-megapixel resolution mode.)	8.9x (In 3-megapixel resolution mode.)	7.1x (In 3-megapixel resolution mode.)	7.1x (In 3-megapixel resolution mode.)
Digital Zoom	4x (Max. 30.8x combined with Extra Optical Zoom)	4x (Max. 35.6x combined with Extra Optical Zoom)	4x (Max. 28.5x combined with Extra Optical Zoom)	4x (Max. 28.5x combined with Extra Optical Zoom)
Focal Length	f= 6.0 - 21.4 mm (35 mm equiv.: 28 - 100 mm)	f= 4.4 - 22 mm (35 mm equiv.: 25 - 125 mm)	f= 5.2 - 20.8 mm (35 mm equiv.: 30 - 120 mm)	f= 5.2 - 20.8 mm (35 mm equiv.: 30 - 120 mm)
Optical Image Stabilizer	MEGA O.I.S. (Auto/Mode1/Mode2)	MEGA O.I.S. (Auto/Mode1/Mode2)	MEGA O.I.S. (Mode1/Mode2)	MEGA O.I.S. (Mode1/Mode2)
Conversion Lens	-	-	-	-
Focusing Area	Normal: 50 cm - ∞ Macro/Intelligent AUTO: 5 cm (W)/30 cm (T) - ∞	Normal: 50 cm (W)/100 cm (T) - ∞ Intelligent AUTO/Macro/Clipboard: 5 cm (W)/100 cm (T) - ∞	Normal: 50 cm - ∞ Macro/Intelligent AUTO: 5 cm (W)/50 cm (T) - ∞	Normal: 50 cm - ∞ Macro/Intelligent AUTO: 5 cm (W)/50 cm (T) - ∞
Focus	Normal/Macro, Quick AF On/Off (On in Intelligent AUTO), AF Area Select, AF Tracking	Normal/Macro, Quick AF On/Off (On in Intelligent AUTO), AF Tracking	Normal/Macro, Quick AF On/Off	Normal/Macro, Quick AF On/Off
AF Metering	Face/AF Tracking/Multi-area/ 1-area high-speed/1-area/Spot	Face/AF Tracking/11-area/ 1-area high-speed/1-area/Spot	Face/9-area/1-area high-speed/1-area	Face/9-area/1-area high-speed/1-area
AF Assist Lamp	Yes	Yes	Yes	Yes
ISO Sensitivity	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)
White Balance	Auto/Daylight/Cloudy/Shade/Halogen/Colour Temperature/White Set 1+2; 2-axis adjustable in +/- 9 steps	Auto/Daylight/Cloudy/Shade/Halogen/White Set; Adjustable in +/- 10 steps (except Auto)	Auto/Daylight/Cloudy/Shade/Halogen/White Set	Auto/Daylight/Cloudy/ Shade/Halogen/White Set; White Balance Adjustment (only in Underwater mode)
Exposure	Program AE, Simple Manual	Program AE	Program AE	Program AE
Scene Mode	Intelligent AUTO/P/M/Motion Picture/SCN (Portrait/Self-Skin/Transform/Self-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Baby1+2/Pet/Sunset/High Sensitivity/Hi-Speed Burst [Speed Priority/Image Priority]/Flash-Burst/Starry Sky/Fireworks/Beach/Snow/Aerial Photo/Film Grain/Pin Hole)	Intelligent AUTO/Normal/Motion Picture/Clipboard/SCN (Portrait/Soft Skin/Transform/Self-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Baby1+2/Pet/Sunset/High Sensitivity/Underwater/Starry Sky/Fireworks/Beach/Snow/Aerial Photo/Hi-Speed Burst/Flash-Burst/Film Grain/Pin Hole)	Intelligent AUTO/Normal/Macro/Motion Picture/SCN1+2 (Portrait/Soft Skin/Self-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Baby1+2/Pet/Sunset/High Sensitivity/Hi-Speed Burst/Starry Sky/Fireworks/Beach/Snow/Aerial Photo)	Intelligent AUTO/Normal/Motion Picture/SCN1+2 (Portrait/Soft Skin/Self-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Baby1+2/Pet/Sunset/High Sensitivity/Hi-Speed Burst/Starry Sky/Fireworks/Beach/Snow/Aerial Photo/Underwater)
Exposure Compensation	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV
Backlight Compensation	Yes (auto in Intelligent AUTO mode)	Yes (auto in Intelligent AUTO mode)	Yes (in Intelligent AUTO mode)	Yes (in Intelligent AUTO mode)
Auto (AE) Bracketing	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames
Light Metering	Intelligent Multiple/Center Weighted/Spot	Intelligent Multiple	Intelligent Multiple	Intelligent Multiple
Aperture	2 steps: F2.8/F9.0 (W), F5.6/F18 (T)	Wide: F2.8 - F8.0; Tele: F5.9 - F8.0	Wide: F3.3 - F8.0; Tele: F5.8 - F8.0	Wide: F3.3 - F8.0; Tele: F5.8 - F8.0
Shutter Speed	60 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	8 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	8 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	8 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)
Self Timer	10 sec/2 sec	10 sec/2 sec	10 sec/2 sec	10 sec/2 sec
Picture Adjustment	Contrast/Sharpness/Saturation/Noise Reduction	-	-	-
Colour Effect/Colour Mode	Black & White/Sepia/Cool/Warm	Standard/Natural/Vivid/Black & White/Sepia/Cool/Warm	Standard/Natural/Vivid/Black & White/Sepia/Cool/Warm	Standard/Natural/Vivid/Black & White/Sepia/Cool/Warm
Recording Formats	Still Pictures: JPEG (DCF, Exif2.21 compliant), RAW, DPOF compatible, Pictures w/ Audio: JPEG (DCF, Exif2.21 compliant) + QuickTime, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Pictures w/ Audio: JPEG (DCF, Exif2.21 compliant) + QuickTime, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Motion Picture: QuickTime Motion JPEG
Recording Pixels (Still Images)	[4:3] 4416 x 3312, 3648 x 2736, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 4416 x 2944, 3648 x 2432, 3072 x 2048, 2560 x 1712, 2048 x 1360; [16:9] 4416 x 2480, 3648 x 2056, 3072 x 1728, 2560 x 1440, 1920 x 1080	[4:3] 3648 x 2736, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3648 x 2432, 3072 x 2048, 2560 x 1712, 2048 x 1360; [16:9] 3648 x 2056, 3072 x 1728, 2560 x 1440, 1920 x 1080	[4:3] 3648 x 2736, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3648 x 2432, 3072 x 2048, 2560 x 1712, 2048 x 1360; [16:9] 3648 x 2056, 3072 x 1728, 2560 x 1440, 1920 x 1080	[4:3] 3648 x 2736, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3648 x 2432, 3072 x 2048, 2560 x 1712, 2048 x 1360; [16:9] 3648 x 2056, 3072 x 1728, 2560 x 1440, 1920 x 1080
Image Quality	Fine/Standard/RAW/RAW+JPEG	Fine/Standard	Fine/Standard	Fine/Standard
Motion Picture	[4:3] 640 x 480 pixels at 30fps/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 fps, [16:9 HD] 1280 x 720 pixels at 24 fps	[4:3] 640 x 480 pixels at 30fps/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 fps, [16:9 HD] 1280 x 720 pixels at 30 fps	[4:3] 640 x 480/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 or 10 fps	[4:3] 640 x 480/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 or 10 fps
Burst Shooting (with full resolution)	2 fps, Up to 8 (Standard)/4 (Fine) pictures	2.5 fps, Up to 5 (Standard)/3 (Fine) pictures	2.5 fps, Up to 5 (Standard)/3 (Fine) pictures	2.5 fps, Up to 5 (Standard)/3 (Fine) pictures
Unlimited* Consecutive Shooting	Yes	Yes	Yes	Yes
Built-in-Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off	Auto, Auto/Red-eye Reduction, Forced On, Forced Off	Auto, Auto/Red-eye Reduction, Forced On, Forced Off
Digital Red-eye Correction	Yes	Yes	-	-
Flash Range (in ISO Auto)	0.6 - 5.9 m (W)/0.3 - 2.9 m (T)	0.6 - 6.0 m (W)/1.0 - 2.8 m (T)	0.3 - 5.3 m (W)/0.5 - 3.0 m (T)	0.3 - 5.3 m (W)/0.5 - 3.0 m (T)
External Flash	-	-	-	-
Viewfinder	-	-	-	-
LCD Monitor	2.7" TFT LCD Display (230k dots), Approx. 100% coverage	2.5" TFT LCD (230k dots), Approx. 100% coverage	3.0" Polycrystalline TFT LCD (230k dots), Approx. 100% coverage	2.5" TFT LCD (230k dots), Approx. 100% coverage
Playback Mode	30/12-thumbnaill display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting, Creating still pictures from a motion picture, Image leveling	30/12-thumbnaill display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting, Creating still pictures from a motion picture, Image leveling	30/12-thumbnaill display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting, Dual image playback	30/12-thumbnaill display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting
Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard
Built-in-Memory	Approx. 50 MB	Approx. 50 MB	Approx. 50 MB	Approx. 50 MB
Microphone / Speaker	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes
Interface	DC Input, AV Output (NTSC/PAL), HD AV Output (component), USB 2.0 High Speed	DC Input, AV Output (NTSC/PAL), HD AV Output (component), USB 2.0 High Speed	DC Input, AV Output (NTSC/PAL), USB 2.0 Full Speed	DC Input, AV Output (NTSC/PAL), USB 2.0 Full Speed
Direct Print	PictBridge	PictBridge	PictBridge	PictBridge
Power Sources	Li-ion Battery Pack (3.7 V, 1150 mAh), AC Adapter (optional)	Li-ion Battery Pack (3.6 V, 1000 mAh), AC Adapter (optional)	Li-ion Battery Pack (3.6 V, 1000 mAh), AC Adapter (optional)	Li-ion Battery Pack (3.6 V, 1000 mAh), AC Adapter (optional)
Battery Life (Approx.) (CIPA)**	330 pictures	310 pictures	280 pictures	300 pictures
Dimensions (Approx.) (W x H x D)	96.7 x 54.0 x 24.8 mm (3.81 x 2.13 x 0.98 inch)	94.7 x 51.9 x 22.0 mm (3.73 x 2.04 x 0.87 inch)	94.9 x 57.1 x 22.9 mm (3.74 x 2.25 x 0.9 inch)	94.9 x 53.4 x 22.5 mm (3.74 x 2.10 x 0.89 inch)
Weight (Approx.) (camera body only)	151 g (0.33 lb)	125 g (0.28 lb)	132 g (0.29 lb)	119 g (0.26 lb)
Included Software	PHOTOfunSTUDIO -viewer- 2.1 E, SILKPIX® Developer Studio 3.0 SE, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO -viewer- 2.1 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO -viewer- 2.0 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO -viewer- 2.0 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver
Standard Accessories	Battery Charger, Battery Pack, Battery Carrying Case, AC Cable, AV Cable, USB Cable, Strap, CD-ROM	Battery Charger, Battery Pack, Battery Carrying Case, AC Cable, AV Cable, USB Cable, Strap, CD-ROM	Battery Charger, Battery Pack, Battery Carrying Case, AC Cable, AV Cable, USB Cable, Strap, CD-ROM	Battery Charger, Battery Pack, Battery Carrying Case, AC Cable, AV Cable, USB Cable, Strap, CD-ROM

*Number of shots may vary depending on memory card size, battery power, picture size, and compression. The consecutive shooting speed varies depending on the shooting conditions and memory card. **Based on the CIPA standard. Using a Panasonic SD Memory Card and supplied batteries. The CIPA (Camera & Imaging Products Association) creates standards for measuring battery life. CIPA measurement method: Switch on the power and LCD, begin shooting in 30 seconds, switch between telephoto and wide-angle every 30 seconds, fire the flash every other shot. After each series of 10 shots, turn the camera off until the battery cools. Ambient conditions: 23°C temperature and 50% humidity. The battery life differs depending on the condition of storage or use, and the environment. The number of recordable pictures varies depending on the recording interval time. If the recording interval time becomes longer, the number of recordable pictures decreases.

•LUMIX Simple Viewer, PHOTOfunSTUDIO-viewer- Requires Microsoft® Windows® 98SE/Me/2000/XP or Vista®. ArcSoft® PhotoBase™, PhotoImpression™, Panorama Maker™. Requires Microsoft® Windows® 98/98SE/Me/2000/XP or Apple® Mac OS® 9 or X (Classic mode). ArcSoft® MediaImpression™. Requires Microsoft® Windows® 2000/XP/Vista®, or Apple® Mac OS® X v10.2 or newer (Version 10.3 or later is recommended). For some previous models, please confirm compatibility with Microsoft® Windows® Vista® on the following website: <http://panasonic.jp/support/global/cs/dsc/> Weight and dimensions shown are approximate. •Design, functions, and specifications are subject to change without notice. •Some sample images are simulated. •Some accessories are not available in some countries. •The use of recorded or printed materials that are protected by copyright for any purpose other than personal enjoyment is prohibited, as it would infringe upon the rights of the copyright holder. •Leica is a registered trademark of Leica Microsystems IR GmbH. •Summicron, Elmarit, and Elmar are registered trademarks of Leica Camera AG. •LEICA DC lenses are manufactured using measurement instruments and quality assurance systems that have been certified by Leica Camera AG based on the company's quality standards. •Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. •Apple® and Mac OS® are either registered trademarks or trademarks of Apple, Inc. in the United States and/or other countries. •QuickTime and the QuickTime logo are trademarks or registered trademarks of Apple, Inc., used under license there from. •Other names of systems and products mentioned in this brochure are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

Lumix - Digital Still Camera

MODEL	DMC-FS3	DMC-LZ10	DMC-LZ8	DMC-LS80
Camera Effective Pixels	8.1 megapixels	10.1 megapixels	8.1 megapixels	8.1 megapixels
CCD Sensor	1/2.5" (8.32 megapixels total) Primary Colour Filter	1/2.33" (10.7 megapixels total) Primary Colour Filter	1/2.5" (8.32 megapixels total) Primary Colour Filter	1/2.5" (8.32 megapixels total) Primary Colour Filter
Lens	LEICA DC VARIO-ELMARIT 6 elements in 5 groups (3 aspherical lenses)	LEICA DC VARIO-ELMAR 7 elements in 6 groups (3 aspherical lenses)	LEICA DC VARIO-ELMAR 7 elements in 6 groups (3 aspherical lenses)	LUMIX DC VARIO 6 elements in 5 groups (3 aspherical lenses)
Optical Zoom	3x	5x	5x	3x
Extra Optical Zoom (Max.)	4.8x (In 3-megapixel resolution mode.)	8.9x (In 3-megapixel resolution mode.)	8.0x (In 3-megapixel resolution mode.)	4.8x (In 3-megapixel resolution mode.)
Digital Zoom	4x (Max. 19.1x combined with Extra Optical Zoom)	4x (Max. 35.6x combined with Extra Optical Zoom)	4x (Max. 31.9x combined with Extra Optical Zoom)	4x (Max. 19.1x combined with Extra Optical Zoom)
Focal Length	f= 5.5 - 16.5 mm (35 mm equiv.: 33 - 100 mm)	f= 5.2 - 26 mm (35 mm equiv.: 30 - 150 mm)	f= 5.2 - 26 mm (35 mm equiv.: 32 - 160 mm)	f= 5.5 - 16.5 mm (35 mm equiv.: 33 - 100 mm)
Optical Image Stabilizer	MEGA O.I.S. (Mode1/Mode2)	MEGA O.I.S. (Mode1/Mode2)	MEGA O.I.S. (Mode1/Mode2)	MEGA O.I.S. (Mode1/Mode2)
Conversion Lens	-	-	-	-
Focusing Area	Normal: 50 cm - ∞ Macro/Intelligent AUTO: 5 cm (W)/30 cm (T) - ∞	Normal: 50 cm (W)/100 cm (T) - ∞ Macro/Intelligent AUTO: 5 cm (W)/100 cm (T) - ∞	Normal: 50 cm (W)/100 cm (T) - ∞ Macro/Intelligent AUTO: 5 cm (W)/100 cm (T) - ∞	Normal: 50 cm - ∞ Macro/Intelligent: 5 cm (W)/30 cm (T) - ∞
Focus	Normal/Macro, Quick AF On/Off	Normal/Macro, Quick AF On/Off	Normal/Macro, Quick AF On/Off	Normal/Macro, Quick AF On/Off
AF Metering	Face/9-area/1-area high-speed/1-area	Face/9-area/3-area high-speed/ 1-area high-speed/1-area/Spot	Face/9-area/3-area high-speed/ 1-area high-speed/1-area/Spot	5-area/1-area high-speed/1-area
AF Assist Lamp	Yes	Yes	Yes	Yes
ISO Sensitivity	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)	Auto/100/200/400/800/1600 (High Sensitivity mode: 1600 - 6400)
White Balance	Auto/Daylight/Cloudy/Shade/Halogen/White Set; White Balance Adjustment (only in Underwater mode)	Auto/Daylight/Cloudy/Shade/Halogen/White Set; Adjustable in +/- 10 steps (except Auto)	Auto/Daylight/Cloudy/Shade/Halogen/White Set; Adjustable in +/- 10 steps (except Auto)	Auto/Daylight/Cloudy/Shade/Halogen/White Set
Exposure	Program AE	Program AE, Aperture Priority AE, Shutter Priority AE, Manual	Program AE, Aperture Priority AE, Shutter Priority AE, Manual	Program AE
Scene Mode	Intelligent AUTO/Normal/Motion Picture/SCN+2 (Portrait/Soft Skin/Self-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Baby+2/Pet/Sunset/High Sensitivity/Hi-Speed Burst/Starry Sky/Fireworks/Beach/Snow/Aerial Photo/Underwater)	Intelligent AUTO/PA/S/M/Motion Picture/Portrait (Normal/Soft Skin/Outdoor/Creative)/Scenery (Normal/Nature/Architecture/Creative)/Sports (Normal/Outdoor/Indoor/Creative)/Night Portrait (Night Portrait/Night Scenery/Illuminations/Creative)/SCN (Food/Party/Candle Light/Self-Portrait/Sunset/Baby+2/Pet/High Sensitivity/Beach/Starry Sky/Fireworks/Snow/Aerial Photo/Hi-Speed Burst)	Intelligent AUTO/PA/S/M/Motion Picture/Portrait (Normal/Soft Skin/Outdoor/Creative)/Scenery (Normal/Nature/Architecture/Creative)/Sports (Normal/Outdoor/Indoor/Creative)/Night Portrait (Night Portrait/Night Scenery/Illuminations/Creative)/SCN (Food/Party/Candle Light/Self-Portrait/Sunset/Baby+2/Pet/High Sensitivity/Beach/Starry Sky/Fireworks/Snow/Aerial Photo/Hi-Speed Burst)	Intelligent/Normal/Motion Picture/SCN (Portrait/Soft Skin/Self-Portrait/Scenery/Sports/Night Portrait/Night Scenery/Food/Party/Candle Light/Baby+2/Pet/Sunset/High Sensitivity/Hi-Speed Burst/Starry Sky/Fireworks/Beach/Snow/Aerial Photo)
Exposure Compensation	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV	1/3 EV step, -2 - +2 EV
Backlight Compensation	Yes (in Intelligent AUTO mode)	Yes (in Intelligent AUTO mode)	Yes (in Intelligent AUTO mode)	Yes (in Intelligent mode)
Auto (AE) Bracketing	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames	+/- 1/3 EV - 1 EV step, 3 frames
Light Metering	Intelligent Multiple	Intelligent Multiple/Center Weighted/Spot	Intelligent Multiple/Center Weighted/Spot	Intelligent Multiple
Aperture	2 steps: F2.8/F8.0 (W), F5.1/F14 (T)	Wide: F3.3 - F8.0; Tele: F5.9 - F8.0	Wide: F3.3 - F8.0; Tele: F5.9 - F8.0	2 steps: F2.8/F8.0 (W), F5.1/F14 (T)
Shutter Speed	8 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	60 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	60 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)	8 - 1/2000 sec (Starry Sky mode: 15/30/60 sec)
Self Timer	10 sec/2 sec	10 sec/2 sec	10 sec/2 sec	10 sec/2 sec
Picture Adjustment	-	Contrast/Sharpness/Saturation/Noise Reduction	Contrast/Sharpness/Saturation/Noise Reduction	-
Colour Effect/Colour Mode	Standard/Natural/Vivid/Black & White/Sepia/Cool/Warm	Black & White/Sepia/Cool/Warm	Black & White/Sepia/Cool/Warm	Standard/Natural/Vivid/Black & White/Sepia/Cool/Warm
Recording Formats	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Motion Picture: QuickTime Motion JPEG	Still Pictures: JPEG (DCF, Exif2.21 compliant), DPOF compatible, Motion Picture: QuickTime Motion JPEG
Recording Pixels (Still Images)	[4:3] 3264 x 2448, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3264 x 2176, 2560 x 1712, 2048 x 1360; [16:9] 3264 x 1840, 2560 x 1440, 1920 x 1080	[4:3] 3648 x 2736, 3072 x 2304, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3648 x 2432, 3072 x 2048, 2560 x 1712, 2048 x 1360; [16:9] 3648 x 2056, 3072 x 1728, 2560 x 1440, 1920 x 1080	[4:3] 3264 x 2448, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3264 x 2176, 2560 x 1712, 2048 x 1360; [16:9] 3264 x 1840, 2560 x 1440, 1920 x 1080	[4:3] 3264 x 2448, 2560 x 1920, 2048 x 1536, 1600 x 1200, 640 x 480; [3:2] 3264 x 2176, 2560 x 1712, 2048 x 1360; [16:9] 3264 x 1840, 2560 x 1440, 1920 x 1080
Image Quality	Fine/Standard	Fine/Standard	Fine/Standard	Fine/Standard
Motion Picture	[4:3] 640 x 480/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 or 10 fps 3 fps, Up to 7 (Standard)/4 (Fine) pictures	[4:3] 640 x 480/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 or 10 fps 2.5 fps, Up to 5 (Standard)/3 (Fine) pictures	[4:3] 640 x 480/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 or 10 fps 2.5 fps, Up to 7 (Standard)/4 (Fine) pictures	[4:3] 640 x 480/320 x 240 pixels at 30 or 10 fps, [16:9] 848 x 480 pixels at 30 or 10 fps 2.5 fps, Up to 7 (Standard)/4 (Fine) pictures
Burst Shooting (with full resolution)	Yes	Yes	Yes	Yes
Unlimited* Consecutive Shooting	Auto, Auto/Red-eye Reduction, Forced On, Forced Off	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off	Auto, Auto/Red-eye Reduction, Forced On, Forced Off
Built-in-Flash	-	-	-	-
Digital Red-eye Correction	0.3 - 6.3 m (W)/0.3 - 3.4 m (T)	0.5 - 6.8 m (W)/1.0 - 3.8 m (T)	0.5 - 6.8 m (W)/1.0 - 3.8 m (T)	0.3 - 5.9 m (W)/0.3 - 3.2 m (T)
Flash Range (in ISO Auto)	-	-	-	-
External Flash	-	-	-	-
Viewfinder	2.5" TFT LCD (230k dots),	2.5" TFT LCD (230k dots),	2.5" TFT LCD (230k dots),	2.5" TFT LCD (230k dots),
LCD Monitor	Approx. 100% coverage	Approx. 100% coverage	Approx. 100% coverage	Approx. 100% coverage
Playback Mode	30/12-thumbail display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting	30/12-thumbail display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting	30/12-thumbail display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting	30/12-thumbail display, Calendar display, Zoomed playback (16x max.), Playback of favorite pictures, Category playback, Slideshow (duration & effect with music is selectable), Image rotation, Resizing, Trimming, Protection, Aspect conversion, DPOF print setting
Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard	Built-in Memory, SD Memory Card, SDHC Memory Card, MultiMediaCard
Built-in-Memory	Approx. 50 MB	Approx. 20 MB	Approx. 20 MB	Approx. 24 MB
Microphone / Speaker	Yes / Yes	Yes / Yes	Yes / Yes	Yes / No
Interface	DC Input, AV Output (NTSC/PAL), USB 2.0 Full Speed	DC Input (required DC Coupler DMW-DCC2), AV Output (NTSC/PAL), USB 2.0 Full Speed	DC Input (required DC Coupler DMW-DCC2), AV Output (NTSC/PAL), USB 2.0 Full Speed	DC Input (required DC Coupler DMW-DCC2), AV Output (NTSC/PAL), USB 2.0 Full Speed
Direct Print	PictBridge	PictBridge	PictBridge	PictBridge
Power Sources	Li-ion Battery Pack (3.6 V, 1000 mAh), AC Adapter (optional)	Two AA Batteries, AC Adapter (optional)	Two AA Batteries, AC Adapter (optional)	Two AA Batteries, AC Adapter (optional)
Battery Life (Approx.) (CIPA**)	330 pictures	160 pictures (AA alkaline batteries)/ 460 pictures (Ni-MH (typical 2600 mAh) rechargeable batteries)	180 pictures (AA alkaline batteries)/ 470 pictures (Ni-MH (typical 2600 mAh) rechargeable batteries)	180 pictures (AA alkaline batteries)/ 470 pictures (Ni-MH (typical 2600 mAh) rechargeable batteries)
Dimensions (Approx.) (W x H x D)	94.9 x 53.4 x 22.5 mm (3.74 x 2.10 x 0.89 inch)	97.5 x 62.0 x 33.3 mm (3.84 x 2.44 x 1.31 inch)	97.5 x 62.0 x 33.3 mm (3.84 x 2.44 x 1.31 inch)	95.7 x 62.0 x 31.2 mm (3.77 x 2.44 x 1.23 inch)
Weight (Approx.) (camera body only)	118 g (0.26 lb)	141g (0.31 lb)	141g (0.31 lb)	129 g (0.28 lb)
Included Software	PHOTOfunSTUDIO-viewer- 2.0 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO-viewer- 2.0 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO-viewer- 2.0 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver	PHOTOfunSTUDIO-viewer- 2.0 E, ArcSoft® (MediaImpression™/Panorama Maker™), USB Driver
Standard Accessories	Battery Charger, Battery Pack, Battery Carrying Case, AC Cable, AV Cable, USB Cable, Strap, CD-ROM	AV Cable, USB Cable, Strap, CD-ROM, Two AA Alkaline Batteries	AV Cable, USB Cable, Strap, CD-ROM, Two AA Alkaline Batteries	AV Cable, USB Cable, Strap, CD-ROM, Two AA Alkaline Batteries

*Number of shots may vary depending on memory card size, battery power, picture size, and compression. The consecutive shooting speed varies depending on the shooting conditions and memory card. **Based on the CIPA standard. Using a Panasonic SD Memory Card and supplied batteries. The CIPA (Camera & Imaging Products Association) creates standards for measuring battery life. CIPA measurement method: Switch on the power and LCD, begin shooting in 30 seconds, switch between telephoto and wide-angle every 30 seconds, fire the flash every other shot. After each series of 10 shots, turn the camera off until the battery cools. Ambient conditions: 23°C temperature and 50% humidity. The battery life differs depending on the condition of storage or use, and the environment. The number of recordable pictures varies depending on the recording interval time. If the recording interval time becomes longer, the number of recordable pictures decreases.

•LUMIX Simple Viewer, PHOTOfunSTUDIO-viewer- Requires Microsoft® Windows® 98SE/Me/2000/XP or Vista®. ArcSoft® PhotoBase™, PhotoImpression™, Panorama Maker™. Requires Microsoft® Windows® 98/98SE/Me/2000/XP or Apple® Mac OS® 9 or X (Classic mode). ArcSoft® MediaImpression™. Requires Microsoft® Windows® 2000/XP/Vista® or Apple® Mac OS® v10.3 or newer (Version 10.4 or later is recommended). SILKPIX® Developer Studio: Requires Microsoft® Windows® 98SE/Me/2000/XP/Windows® 2000/XP/Vista® recommended. Only a systems administrator with authority can install software on a Windows® XP/2000/Vista®, or Apple® Mac OS® v10.2 or newer (Version 10.3 or later is recommended). For some previous models, please confirm compatibility with Microsoft® Windows Vista® on the following website: <http://panasonic.jp/support/global/cs/dsc/> Weight and dimensions shown are approximate. •Design, functions, and specifications are subject to change without notice. •Some sample images are simulated. •Some accessories are not available in some countries. •The use of recorded or printed materials that are protected by copyright for any purpose other than personal enjoyment is prohibited, as it would infringe upon the rights of the copyright holder. •Leica is a registered trademark of Leica Microsystems IR GmbH. •Summicron, Elmarit, and Elmar are registered trademarks of Leica Camera AG. •LEICA DC lenses are manufactured using measurement instruments and quality assurance systems that have been certified by Leica Camera AG based on the company's quality standards. •Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. •Apple® and Mac OS® are either registered trademarks or trademarks of Apple, Inc. in the United States and/or other countries. •QuickTime and the QuickTime logo are trademarks or registered trademarks of Apple, Inc., used under license there from. •Other names of systems and product logos mentioned in this brochure are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

MODEL		DMC-L10
TYPE	Type	Interchangeable lens digital SLR camera
	Recording media	SD memory card, SDHC memory card, Multimedia card
	Image sensor size	17.3 x 13.0 mm
IMAGE SENSOR	Mount	Four Thirds mount
	Type	Live Mos Sensor
	Total pixels	11.8 Mega pixels
	Camera effective pixels	10.1 Mega pixels
	Aspect ratio	4:3 (Horizontal : Vertical)
	Colour filter	Primary colour filter
	Dust reduction system	Supersonic Wave filter
RECORDING SYSTEM	Recording file format	JPEG (Design rule for Camera File system, based on Exif 2.21 standard), DPOF corresponding, RAW, RAW+Fine, RAW+Standard
	Aspect ratio	4:3, 3:2, 16:9 (3:2, 16:9 Live view mode)
	File size	4:3 Aspect Ratio: 3648 x 2736 pixels, 2816 x 2112 pixels, 2048 x 1536 pixels 3:2 Aspect Ratio: 3648 x 2432 pixels, 2816 x 1880 pixels, 2048 x 1360 pixels 16:9 Aspect Ratio: 3648 x 2056 pixels 2816 x 1584 pixels, 1920 x 1080 pixels
	Colour space	sRGB, Adobe RGB
	Type	Eye level penta mirror type optical view finder
VIEWFINDER	Field of view	Approx. 95%
	Magnification	Approx. 0.92x
	Eye point	Approx. 14 mm [-1[m-1]]
	Dioptr adjustment	-3.0 - +1 [m-1]
	Focusing screen	Fixed type
	Mirror	Quick Return Mirror
	Eye-piece cap	Detachable
AUTO FOCUS	Type	TTL phase difference detection system, Contrast AF system (Live view mode)
	Focusing mode	AFS/AFC/MF
	Focusing area	TTL phase difference detection system: 3-point Auto / 1 fixed point, left / 1 fixed point, center / 1 fixed point, right Contrast AF system: 9-point / Multi-point / 3-point / 1-point / Spot / Face
	AF detectable range	TTL phase difference detection system, EV0-19 (ISO100) Contrast AF system, EV0-20 (ISO100)
	AF assist lamp	YES
EXPOSURE CONTROL	AF lock	AF/L/AEL button or Shutter button halfway pressed in AFS mode
	Light metering system	TTL Full Aperture Light Metering by 49 Zones Multi-pattern Sensing system, 256 zones Multi-pattern Sensing system (Live view mode)
	Light metering mode	Intelligent Multiple / Center Weighted / Spot
	Metering range	EVO - 20 (F2.0 lens, ISO 100)
	Exposure mode	Program AE / Aperture Priority AE / Shutter Priority AE / Manual
	ISO sensitivity	Auto / 100 / 200 / 400 / 800 / 1600 / Intelligent ISO (Live view mode)
	Exposure compensation	1/3EV Step ±2EV
WHITE BALANCE	AE lock	AF/L/AEL Button or Shutter button halfway pressed
	AE bracket	3frame, 1/3-2EV Step ±2EV
	White balance	Auto / Daylight / Cloudy / Shade / Halogen / Flash / White Set 1,2 / Colour temperature setting
	White balance adjustment	blue/amber bias, magenta/green bias
SHUTTER SYSTEM	Colour temperature setting	2500-10000K in 100K
	Type	Focal-plane shutter
	Shutter speed	1/4000 - 60 and Bulb (up to approx. 8minutes)
SCENE MODE	Self timer	2sec / 10sec / 10sec, 3images
	Remote control	Remote control with bulb function by DMW-RSL1 (Optional)
	Advanced SCN mode	Portrait / Scenery / Macro / Sports / Night Portrait
BURST SHOOTING	SCN mode	Baby 1,2 / Pet / Sunset / Food
	Burst speed	3 frames/sec or 2 frames/sec
BUILT-IN-FLASH	Number of recordable	3 pictures (when there are RAW file), Unlimited consecutive shooting (when there are no RAW file) (depending on memory card size, battery power, picture size, and compression)
	Type	TTL Built-in-Flash, GN11 (ISO100, m), Built-in Pop-up
	Built-in flash	Auto, Auto/Red-eye Reduction, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off
	X-Sync speed	Less than 1/160 second
	Flash output adjustment	1/3EV Step ±2EV
	Flash synchronization	1st. Curtain Sync., 2nd Curtain Sync.
	Hot shoe	TTL Auto with FL360/FL500 (Optional)
	Type	Low temperature Polycrystalline TFT LCD
	Monitor size	Free-angle 2.5inch
	Pixels	207K pixels
LCD MONITOR	Field of view	Approx. 100% (Live view mode)
	OSD language	English, German, French, Italian, Spanish, Polish, Czech, Hungarian, Russian, Chinese (Traditional), Chinese (Simplified), Netherlandic, Thai, Korean, Turkish, Portuguese, Arabic, Persian, Japanese
	Digital zoom	2x, 4x
LIVE VIEW	Extra optical zoom	Max 1.8x (Not effective with full pixel recording, Magnification ratio depends on the recording pixels.)
	Colour	Standard / Dynamic / Nature / Smooth / Vibrant / Nostalgic
FILM MODE	Black and white	Standard / Dynamic / Smooth
	Others	My Film1 / My Film2 / Multi Film
PLAYBACK	Playback mode	Single / 9, 25-thumbnaill display, Calendar display, Zoomed playback (16x max.), / image rotation (except for RAW) Slide show (duration is adjustable, also manual controllable), Playback of favorite pictures/ Resizing (selectable number of pixels) Trimming / Protection / Aspect conversion / DPOF print setting
	Protection / Erase	Single / Multi or Cancel
DIRECT PRINT INTERFACE	Print	Single / Multi / All / Except FAVOURITE
	Digital	PictBridge Print size, Layout, Date setting is selectable
POWER	Digital video	USB 2.0
	Analog video	NTSC/PAL Composite (Switched by menu)
DIMENSIONS / WEIGHT	Battery	Li-ion Battery Pack (7.2V, 1320mAh) (Included) Battery Charger/AC Adaptor (Input: 110-240V AC) (Optional DC cable (DMW-DCC1) is required)
	Battery life*	Approx. 450 images (CIPA Standard with LEICA D VARIO-ELMAR 14-50mm/F3.8-F5.6 ASPH.)
OPERATING CONDITION	Weight	134.5 x 95.5 x 77.5mm
	Operating temperature	Approx. 480g (Body only)
STANDARD ACCESSORY	Operating humidity	0 to 40
	Software	10% to 80
STANDARD ACCESSORIES	Standard accessory	LUMIX Simple Viewer, PhotofunStudio -viewer-, SILKYPIX Developer Studio, USB Driver
	Standard accessories	Battery Charger/AC Adaptor, Battery Pack, Eyepiece Cap, Magnifier Eyecup, Body Cap, Video Cable, USB Cable, AC Cable, Strap, CD-ROM

MODEL		DMC-G1
TYPE	Type	Digital interchangeable lens system camera
	Recording media	SD memory card, SDHC memory card, Multimedia card
	Image sensor size	17.3 x 13.0 mm
IMAGE SENSOR	Mount	Micro Four Thirds mount
	Type	Live MOS Sensor
	Total pixels	13.1 Megapixels
	Camera effective pixels	12.1 Megapixels
	Aspect ratio	4:3 (Horizontal : Vertical)
	Colour filter	Primary colour filter
	Dust reduction system	Supersonic wave filter
RECORDING SYSTEM	Recording file format	JPEG(Design rule for Camera File System, based on Exif 2.21 standard), RAW, DPOF corresponding
	Aspect ratio	4:3, 3:2, 16:9
	File size	4:3 Aspect Ratio: 4000 x 3000 pixels, 2816 x 2112 pixels, 2048 x 1536 pixels 3:2 Aspect Ratio: 4000 x 2672 pixels, 2816 x 1880 pixels, 2048 x 1360 pixels 16:9 Aspect Ratio: 4000 x 2248 pixels, 2816 x 1584 pixels, 1920 x 1080 pixels
	Image quality	RAW, RAW+Fine, RAW+Standard, Fine, Standard
	Colour space	sRGB, Adobe RGB
VIEWFINDER	Type	Live View Finder (1,440,000 dots equivalent)
	Field of view	Approx. 100%
	Magnification	Approx. 1.4x / 0.7x (35mm film camera equivalent) with 50mm lens at infinity, -1.0 m-1
	Eye point	Approx. 17.5mm
	Dioptr adjustment	-4.0 - +4.0 [m-1]
	Type	Contrast AF system
	Focusing mode	AFs/AFC/MF
EXPOSURE CONTROL	AF mode	Face detection / AF Tracking / 23-area-focusing / 1-area-focusing
	AF detectable range	EV 0-18 (ISO100)
	AF assist lamp	YES
	AF lock	AF/AE LOCK button or Shutter button halfway pressed in AFs mode
	Light metering system	144-zone multi-pattern sensing system
	Light metering mode	Intelligent Multiple / Center Weighted / Spot
	Metering range	EV 0-18 (F2.0 lens, ISO 100)
WHITE BALANCE	Exposure mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
	ISO sensitivity	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / Intelligent ISO
	Exposure compensation	1/3EV Step ±3EV
	AE lock	AF/AE LOCK button or Shutter button halfway pressed
SHUTTER SYSTEM	AE bracket	3.5, 7 frame, in 1/3 or 2/3 EV Step, ±2 EV
	White balance	Auto / Daylight / Cloudy / Shade / Halogen / Flash / White Set 1,2 / Colour temperature setting
	White balance adjustment	Blue/amber bias, Magenta/green bias
SCENE MODE	Colour temperature setting	2500-10000K in 100K
	White balance bracket	3 exposures in blue/amber axis or in magenta/green axis
	Type	Focal-plane shutter
BURST SHOOTING	Shutter speed	1/4000 - 60 and Bulb (up to approx. 4minutes)
	Self timer	2sec / 10sec / 10sec, 3 images
	Remote control	Remote control with bulb function by DMW-RSL1 (Optional)
BUILT-IN-FLASH	Advanced SCN mode	Portrait (Normal/Soft Skin/Outdoor/Indoor/Creative) / Scenery (Normal/Nature/Architecture/Creative) / Sports (Normal/Outdoor/Indoor/Creative) / Close-up (Flower/Food/Objects/Creative)
	SCN mode	Night Portrait (Night Portrait/Night Scenery/Illuminations/Creative)
	Burst speed	Sunset / Party / Baby 1,2 / Pet
LCD MONITOR	Burst speed	3 frames/sec (High speed) or 2 frames/sec (Low speed)
	Number of recordable	7 pictures (when there are RAW file with the particular speed) Unlimited consecutive shooting (when there are no RAW file) (depending on memory card size, battery power, picture size, and compression)
	Type	TTL Built-in-Flash, GN11 equivalent (ISO 100 -m), Built-in Pop-up
	Built-in flash	Auto, Auto/Red-eye Reduction, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off
	X-Sync speed	Less than 1/160 second
	Flash output adjustment	1/3EV Step ±2EV
	Flash synchronization	1st. Curtain Sync., 2nd Curtain Sync.
LIVE VIEW	Hot shoe	TTL Auto with FL360/FL500/FL220 (Optional)
	Type	Low temperature Polycrystalline TFT LCD
	Monitor size	Free-angle 3.0inch / 3:2 Aspect / Wide viewing angle
FILM MODE	Pixels	460K dots
	Field of view	Approx. 100%
PLAYBACK	Digital zoom	2x, 4x
	Extra optical zoom	Max 2x (Not effective with full pixel recording, Magnification ratio depends on the recording pixels.)
PROTECTION / ERASE	Other functions	Highlight Display, Guide Lines (3 patterns), Real-time Histogram
	Colour	Standard / Dynamic / Nature / Smooth / Nostalgic / Vibrant
DIRECT PRINT INTERFACE	Black and white	Standard / Dynamic / Smooth
	Others	My Film1 / My Film2 / Multi Film
POWER	Playback mode	Single / 12, 30-thumbnaill display, Calendar display, Zoomed playback (16x max.), / image rotation (except for RAW) Slide show (duration is adjustable, also manual controllable), Playback of favorite pictures/ Resizing (selectable number of pixels) Trimming / Protection / Aspect conversion / DPOF print setting
	Protection / Erase	Single / Multi or Cancel
OSD LANGUAGE	Print	Single / Multi / All / Except FAVOURITE
	Digital	PictBridge Print size, Layout, Date setting is selectable
STANDARD ACCESSORIES	Digital video	USB 2.0 High Speed
	Analog video	Min iHDMI TypeC (1.3b corresponding)
DIMENSIONS / WEIGHT	Battery	NTSC/PAL Composite (Switched by menu) *Check the website of the Panasonic sales company in your country or region for details on the products that are available in your market.
	Battery life*	English, German, French, Italian, Spanish, Polish, Czech, Hungarian, Russian, Chinese (Traditional), Chinese (Simplified), Dutch, Thai, Korean, Turkish, Portuguese, Arabic, Persian, Japanese, Finnish, Danish, Swedish
OPERATING CONDITION	Weight	124 x 83.6 x 45.2mm
	Operating temperature	Approx. 385g (Body only)
STANDARD ACCESSORIES	Operating humidity	0°C to 40°C
	Software	10% to 80%
STANDARD ACCESSORIES	Standard accessory	PHOTOfunSTUDIO -viewer- 2.1 E, SILKYPIX © Developer Studio 3.0 SE
	Standard accessories	USB Driver, Battery Charger/AC Adapter, Battery Pack, Body Cap, Video Cable, USB Connection Cable, AC Cable, Shoulder Strap, CD-ROM

*Based on the CIPA standard. Using a Panasonic SD Memory Card and supplied batteries. The CIPA (Camera & Imaging Products Association) creates standards for measuring battery life. CIPA measurement method: Switch on the power and LCD, begin shooting in 30 seconds, switch between telephoto and wide-angle every 30 seconds, fire the flash every other shot. After each series of 10 shots, turn the camera off until the battery cools. Ambient conditions: 23°C temperature and 50% humidity. The battery life differs depending on the condition of storage or use, and the environment. The number of recordable pictures varies depending on the recording interval time. In the recording interval time becomes longer, the number of recordable pictures decreases. *Number of shots may vary depending on memory card size, battery power, picture size, and compression. *DMC Simple Viewer, PHOTOfunSTUDIO -viewer-, Requires Microsoft® Windows® XP/2000/XP or Vista™ *SILKYPIX © Developer Studio. Requires Microsoft® Windows® XP/2000/XP or Vista™ Windows® 2000/XP/Vista™ recommended. Only a systems administrator with authority can install software on a Windows® XP/2000/XP or Vista™ or Apple® Mac OS® X v10.2 or newer (Version 10.3 or later is recommended). *Weight and dimensions shown are approximate. *Design, functions, and specifications are subject to change without notice. *Some sample images are simulated. *Some accessories are not available in some countries. *The use of recorded or printed materials that are protected by copyright for any purpose other than personal enjoyment is prohibited, as it would infringe upon the rights of the copyright holder. *Leica is a registered trademark of Leica Microsystems IR GmbH. *Elmar is registered trademark of Leica Camera AG. *LEICA D VARIO-ELMAR lens is manufactured using measurement instruments and quality assurance systems that have been certified by Leica Camera AG based on the company's quality standards. *Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. *Apple® and Mac OS® are either registered trademarks or trademarks of Apple, Inc. in the United States and/or other countries. *Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned. *Some functions may not work when lenses other than the included lens are used. Please refer to Panasonic's website etc. for the latest information.

DECT

MODEL	KX-TG1100ES	KX-TG7301EB (without SMS)	KX-TG7321EG	KX-TG7341EM	KX-TG8321EB	KX-TG7160ES/KX-TG7180ES
GENERAL						
Series (Category)	CID	CID	CID, (SMS), TAM	CID, DK, (SMS), TAM	CID, (SMS), TAM, Colour LCD	CID, TAM
Frequency	1.9GHz	1.9GHz	1.9GHz	1.9GHz	1.9GHz	1.9GHz
CH	120 CH	120 CH	120 CH	120 CH	120 CH	120 CH
DECT/ GAP	Y/-	Y/Y	Y/Y	Y/Y	Y/Y	Y/Y
LINE	1	1	1	1	1	1
Multiple Handsets	N	Up to 6 H/S	Up to 6 H/S	Up to 6 H/S	Up to 6 H/S	Up to 6 H/S
Multi base unit	N	N	N	N	Up to 4 B/U	N
Number of LCD Language	10	14	14	14	14	14
OTHER FEATURES						
Ringer LED	Ringer LED	Y (Amber)	Y (Amber)	Y (Amber)	Y (Amber)	Y (1-colour: Amber)
Ringer ID (Private Ringing) *1*2	N	Ni-MH(AAA x 2)	N	N	9-Category	N
Private Colour Display on Handset	N	Ni-MH(AAA x 2)	N	N	(blue/ yellow/ green/ purple/ white)	N
Recordable Customised Ringer (record time)	N	N	N	N	N	N
SMS Feature*1	N	N	N	N	Y	N
Incoming Call Baring	N	N	N	N	Y	N
Voice Enhancer	N	N	N	N	N	N
Night Mode	N	N	N	N	Y	N
Call Restriction	Y	N	N	N	Y	N
Icon Operation	N	N	N	N	Y	N
Caller ID *1	Y	Y	Y	Y	Y	Y
Additional Features	N	N	N	N	N	Bone Conduction (7180), Caller ID number announce *1, Number List Announce
CALLER ID / PHONEBOOK						
Caller ID Memory *1	Y-50 ITEMS	50 items	50 items	Y-50 ITEMS	50 items	Y-50 ITEMS
Audible Caller ID *1	N	N	N	N	N	N
Phonebook Memory (Handset)	50 items (Name & Number)	100 items (Name & Number) (16 characters/ 24 digits)	100 items (Name & Number) (16 characters/ 24 digits)	100 items (Name & Number) (16 char/ 24 digits)	200 items (Name & Number) (16 characters/ 24 digits)	50 items (Name & Number) (16 char/ 24 digits)
Phonebook Copy (Handset to Handset)	N	N	Y *3	Y *3	Y *3	Y *3
One Touch Dial (Handset)	9	N	N	-	9	N
HANDESET FUNCTIONS						
LCD (Handset)	14-Seg, 12-digit, 1-Line	1.4 inch Monochrome 103 x 65 pixels 3Line + Softkey + Pict	1.4 inch Monochrome 103 x 65 pixels 3Line + Softkey + Pict	1.4-inch Monochrome 103 x 65 pixels 3-Line + Softkey + Pict	1.5 inch Colour 128 x 128 pixels 3Line + Softkey + Pict	Dot, 16-digit, 3-Line mono
LCD backlight Colour	Y (Amber)	Amber	Amber	Amber	White	Y (Amber)
Indicator	LCD Backlit	LCD backlit	LCD backlit	LCD backlit	LCD backlit	LCD backlit Ringer LED
Navigation Key	Y	Y	Y	Y	N	Y
Joystick	N	N	N	N	Y	N
Illuminated Keypad	N	Amber	Amber	Amber	Y (Blue)	Y (Amber)
Ringer Pattern (Tone/ Melody)	20 (6/ 14)	10 (5/ 5)	15 (5/ 10)	15 (5/ 10)	20 (6/ 14)	15 (5/ 10)
Polyphonic Ringer Melody (Cord Number)	N	Y (16-chord)	Y (16-chord)	Y (16-chord)	Y (22-chord)	16 chord
Ringer Volume	6-Step + OFF	6-Step + OFF	6-Step + OFF	6-Step + OFF	6-Step + OFF	6-Step + OFF
Auto Redial	N	N	N	N	N	N
Redial Memory	10 (only Number)	10 (Number & Name)	10 (Number & Name)	10 (Number & Name*2)	10 (Number & Name)	10 (Number & Name*2)
Redial Digits of number	24 digits	24 digits	24 digits	24 digits	24 digits	24 digits
Auto Redial (Handset)	N	N	N	N	Y	N
Digital Speakerphone	N	Y	Y	Y	Y	Y
Speakerphone Volume	N	6-Step	6-Step	6-Step	6-Step	6-Step
Talk Volume (Ear Receiver Volume)	3-Step	4-Step	4-Step	4-Step	4-Step	4-Step
Conference Call with Outside Line	N	Y (3-Way) *3	Y (3-Way) *3	Y (3-Way) *3	Y (3-Way) *3	Y (3-Way) *3
Call Share (Barge in)	N	Y *3	Y *3	Y *3	Y *3	N
Intercom (Handset to Base)	N	N	N	N	N	N
Intercom (Handset to Handset)	Y *6	Y *3	Y *3	Y *3	Y *3	Y *3
Any Key Answer	Y	Y	Y	Y	Y	Y
Mute	N	Y	Y	Y	Y	Y
Clock	Y	Y	Y	Y	Y	Y
Alarm	Y	Y	Y	Y	Y (Memo alarm)	Y
Battery Type	Ni-MH	Ni-MH(AAA x 2)	Ni-MH(AAA x 2)	Ni-MH(AAA x 2)	Ni-MH(AAA x 2)	Ni-MH (2-cell)
Talk Time	10 hours	17 hours	17 hours	17 hours	15 hours	12/ 10 hours
Standby Time	120 hours	180 hours	180 hours	180 hours	150 hours	150 hours
Charge time	7 hours	7 hours	7 hours	7 hours	7 hours	7 hours
Headset Jack	N	N	N	N	Y	Y
Key Lock	Y	Y	Y	Y	Y	Y
Belt Clip Included	N	N	N	N	Y	Y
BASE FUNCTIONS						
Handset Locator	Y	Y	Y	Y	Y	Y
Ringer Pattern (Tone/ Melody)	N	N	1 (1/ 0)	6 (6/0)	1 (1/ 0)	N
Ringer volume	N	N	High/ Mid/ Low/ Off	High/ Mid/ Low/ Off	High/ Mid/ Low/ Off	High/ Mid/ Low/ Off
TAM Operation Key	N	N	Y	Y	Y	Y
DIMENSIONS						
Wall Mountable	Y	Y	Y	Y	N	Option (KX-1CA717)
TAM	N	N	Y	Y	Y	Y
Total Recording Time (ICM+GM)	N	N	20 MIN	About 20 min.*5	About 40 min.	About 20min.
2way recording (Record Call)	N	N	-	N	Y	N
Call screening	N	N	Y (Handset)	Y (Handset, Base unit)	Y (Handset)	Y (Handset)
Remote Operation from outside (DTMF)	N	N	Y	Y	Y	N
PACKS & ADDITIONAL HANDSETS						
Toll saver	N	N	Y	Y	Y	N
Optional Handset	N	KX-TGA731	KX-TGA731	KX-TGA731	KX-TGA830	KX-TGA715/ 717
Available Packs	X2, X3			X2		
DIMENSIONS						
Base Dimension (W×D×H)	123 mm × 115 mm × 58 mm	143 mm × 107 mm × 44 mm	143 mm × 107 mm × 44 mm	149 mm × 128 mm × 64 mm	99 mm × 155 mm × 48 mm	173 mm × 105 mm × 60 mm
Handset Dimension (W×D×H)	48 mm × 32 mm × 143 mm	48 mm × 35 mm × 150 mm	48 mm × 35 mm × 150 mm	48 mm × 35 mm × 150 mm	48 mm × 34 mm × 149 mm	48 mm × 34/ 38 mm × 179 mm
Camera Dimensions (W×D ×H)	N	N	N	N	N	N
Skype Dimensions (W×D ×H)	N	N	N	N	N	N
WEIGHT						
Base Weight	180 g	140 g	170 g	270 g	170 g	260 g
Handset Weight with Battery	120 g	130 g	130 g	130 g	120 g	150/ 160 g
Camera Weight	N	N	N	N	N	N
Skype Weight	N	N	N	N	N	N

*1 Requires subscription to this service offered by your telephone company

*2 Requires registration in Phonebook function

*3 Optional handset required.

*4 Letter wise is a registered trademark of Eaton Ergonomics, Inc.

*5 Specification may vary by country version. See other Page or ask sales in detail.

*6 Only Bundle Model

*7 With Call Share (Barge in)

*3 Optional handset required.

*4 Letter wise is a registered trademark of Eaton Ergonomics, Inc.

DECT	
MODEL	KX-TS710EXB
Dimensions	119mm x 47mm x 43mm
Weight	Approx. 85g
Power consumption	Standby: Approx. 0.47W Maximum: Approx. 1.4 W
Power supply	USB Powered
Interface	USB: 1.1
USB Cable Length	Approx. 1m
Ear Receiver Volume	6 steps
Speakerphone Volume	6 steps

FAX				
MODEL	KX-FP205	KX-FP215	KX-FC225	KX-FC255
Printing Method	Thermal Transfer Plain Paper	Thermal Transfer Plain Paper	Thermal Transfer Plain Paper	Thermal Transfer Plain Paper
Modem Speed	9600bps	14400bps	9600bps	9600bps
Dual Access	N	N	N	N
Quick Scan	Y	Y	Y	Y
ADF Capacity	10 Sheets	10 Sheets	10 Sheets	10 Sheets
Max Paper Capacity (Std)	30 pages	30 pages	30 pages	30 pages
Max paper Capacity (Max)	30 pages	30 pages	30 pages	30 pages
Memory (Std)	28 pages	28 pages	28 pages	28 pages
Memory (Max)	28 pages	28 pages	28 pages	28 pages
HalfTone	64	64	64	64
One-Tone/Abbr	0/100	0/100	0/100	0/100
Scanning Resolution	N	N	N	N
Print Speed/Resolution	2 ppm	2 ppm	2 ppm	2 ppm
Power Saver	N	N	N	N
Navigation Key	Y	Y	Y	Y
Check & Call	N	N	N	N
Confidential Transmission	N	N	N	N
Confidential Mail Boxes	N	N	N	N
SMS Compatible	N	N	N	Y
Speakerphone	N	Y	Y	Y
Verification Stamp	N	N	N	N
TAM	N	Y	Y	Y
TAM Interface	N	N	N	N
DECT Telephone	N	N	Y	Y
Additional DECT Handset option	N	N	KX-TCA711E	KX-TGA811E
Multi Functional interace	N	N	N	N
PC Scanner	N	N	N	N
PC Printer	N	N	N	N
Copier	Y	Y	Y	Y
Warranty	1 Year Swap Out	1 Year Swap Out	1 Year Swap Out	1 Year Swap Out
Main Consumable	KX-FA52X	KX-FA52X	KX-FA52X	KX-FA52X

IP Network Cameras					
MODEL	BB-HCM531	BL-C111	BL-C131E	BL-C1	BL-C20
EASY SET-UP					
UPNP support	Y	Y	Y	Y	Y
DDNS service supported	Y	Y	Y	Y	Y
CAPTURE					
Colour night view mode	0.2	3.0	3.0	4.0	4.0
Adaptive contrast enhancement	N	N	N	N	N
Human detection sensor	N	Y	Y	N	N
Motion Detection Function	Y	Y	Y	Y	Y
Mega -Pixel Resolution	N	N	N	N	N
STORE					
SD Memory card recording	Y	N	N	N	N
Recording audio simultaneously with SD Memory Card	Y	N	N	N	N
Buffered images	Y	Y	Y	Y	Y
Recording Program	Y	Y	Y	Y	Y
CONNECT					
Image transfer function	Y	Y	Y	Y	Y
Ipv ⁴ compatibility	Y	Y	Y	N	N
Ipssec Compatibility	N	N	N	N	N
VIEW					
Simultaneous MPEG-4 and JPEG	Y	Y	Y	N	N
Multi-camera capability	Y	Y	Y	Y	Y
Full screen Display	Y	Y	Y	N	N
Cell Phone Monitoring	Y	Y	Y	Y	Y
30 fps at VGA size	Y	Y	Y	N	N
Time Stamp function	Y	Y	Y	N	N
Analog video output	Y	N	N	N	N
SD Viewer	Y	N	N	N	N
Buffered image viewer	Y	Y	Y	Y	Y
CONTROL					
Audio 2-way communication	Y	N	N	N	N
Built-in-microphone (1 way communication)	N	Y	Y	N	N
Remote pan and tilt control	Y	Y	Y	N	N
42x zoom	N	N	N	N	N
10x zoom	Y	Y	Y	Y	Y
Privacy mode	N	Y	Y	N	N
OTHERS					
Easy PoE power supply	Y	N	N	N	N
Splash resistant body	Y	N	N	N	N
Wireless communication	N	N	Y	N	Y

IP Monitoring System	
MODEL	BL-WV10
MONITORING	
Image data compression system	JPEG (Motion JPEG for moving image display)
Video resolution	640 x 480, 320 x 240
Image quality	3 modes (favor clarity, standard, favor motion)
Frame rate	Max. 30 frames/sec (320 x 240)
Security	User ID/password
Supported protocols	IPv4: TCP, UDP, HTTP, FTP, DHCP
Camera image display	Displays a maximum of 8 camera images, 1 Screen per 8 pages, 2 screens per 4 pages, 4 screens per 2 pages, Camera pan/tilt operations, Sequential display, 16x digital zoom, 21x optical zoom for BB-HCM381/HCE481, Image size switching, Resolution switching
Camera motion sensor support	Automatically switch to camera image, Automated camera image recording, Buzzer/LED notification
LAN INTERFACE	
Number of ports	4
Connector type	8-pin modular jack (RJ-45)
Physical interface	IEEE802.3 (10BASE-T), IEEE802.3u (100BASE-TX), MDI/MDI-X with auto-detect
WIRELESS LAN INTERFACE	
IEEE802.11b	
Transmission speed*1	11/5.5/2/1 Mbps (IEEE802.11b standard): automatic fallback
Number of channels	13 ch.
Security	WEP (64 bit/128 bit/152 bit), wireless stealth functionality (SSID suppression, connection denial/permissions through ANY key), MAC address filtering
IEEE802.11g	
Transmission speed*1	54/48/36/24/18/12/9/6 Mbps (IEEE802.11g standard): automatic fallback
Number of channels	13 ch.
Security	WEP (64 bit/128 bit/152 bit), wireless stealth functionality (SSID suppression, connection denial/permissions through ANY key), MAC address filtering
TERMINAL	
Analog video output	1 port
SD Memory card slot	Full size (operation guaranteed for 2GB, 1GB, 512MB, 256MB, 128MB and 64MB SD Memory Cards)
GENERAL	
Operating temperature	0°C to +40°C (+32°F to +104°F)
Operating humidity	20% to 85% (No condensation)
Dimensions (H x W x D)	42 x 220 x 171 mm (1 5/8 x 8 11/16 x 6 3/4 inches) (excluding antenna and protrusions)
Weight (Main unit only)	500 g (1.1 lb)
Power supply	AC adaptor: input 100 - 240 V AC, output 12 V DC
Consumption	7.5 W

*1 The values listed here are the theoretical maximum transmission speeds for wireless networks, and do not represent the actual speed of transmission.

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